

## SEQUENCE LISTING

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<120> COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
 OF COLON CANCER AND METHODS FOR THEIR USE

<130> 210121.471C14

<140> US

<141> 2001-12-19

<160> 1129

<170> FastSEQ for Windows Version 4.0

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<223> n = A,T,C or G

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 gcttcacact ctttcagctt ggtcttcaga gccacgattt ctgggcgaat ggcaaggaca 360  
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 aatgtcctct atggcccrga tgmcccccacc atttccctc taaacacatm ttaccgwyca 180  
 ggggaaaatc tgaacctctc ctgccacgca gcctctaacc cacctgcaca gtactcttgg 240  
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 aataatagyg gatcctatac gtgccaaagg cataactcag mactggcct caataggacc 360  
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 ctccaacccc gtggaggatg aggatgctgt agccttaacc tgtgaacctg agattcagaa 480  
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 gccggggcg 309

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 tgtcctctat gggccagaca sccccatca tttcccccc agactcgtct tacctttcgg 180



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gagcgaacct caacctctcc tgccactcgg cctctaaccc atccccgcag tattcttggc 240
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aataataacg ggacctatgc ctgttttgtc tctaacttgg ctactggccc gcaataattc 360
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<213> Homo sapiens

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gtsrattcsa catttgggrt akrtymtctc tsgaagysam tgcakgcag tgrcayccwr 180
gkktcwgawt gcwgtgrgtt amcakcmwtr ywtagkgsgm ayatrattta ramrgtayak 240
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<210> 7

<211> 401

<212> DNA

<213> Homo sapiens

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taagatgagg tggctccttg cccattggga cccggatctg gactggttca ccattgtact 180
tctggtccag gatgacggct tgataagctg atgctgtaat ttcattcttg ctggcctggc 240
tgccctgcca aacgtagagc aggtaatgct gcttctcgcc gatgaaggta ggtgtaagag 300
cagcaggtaa gcaagttcgc ccccatagaa gtgggcctag ccacttgaa ttccagcaca 360
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<210> 8

<211> 1151

<212> DNA

<213> Homo sapiens

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tacaagaat ccctagacgc catactgagt ttttaagttcc ttaattccta atttaaggct 300
tctagtgaag cctcctcaca gtaggcttca ctaggcccac agtgccccta gacctctgac 360
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aacattgctg caaaatgaac acacttttag acaccctgc agatatctaa gtaagtggag 540
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cagctcatca gtcaggactc gcctgccac catatggtaa gcsgragggc atttgagcag 360
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<212> DNA

<213> Homo sapiens

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gcatctggat tcctaatact tttccgaaat ggcagggtgt agtgccctga taaaatattc 180
tatgtttacc ttcaacttct tgttctggct atgtgggtatc ttgatcctag cattagcaat 240
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<210> 13

<211> 150

<212> DNA

<213> Homo sapiens

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caaaataaaa gtaactgttt acgttggtga 150

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<210> 14

<211> 403

<212> DNA

<213> Homo sapiens

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ttccctcacc ccaagcctca tgttcatacc agccagtggg ttcagcagaa cgcattgacac 180
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gcatagggtga gccctgagca ctaaaaggag ggtccctga agctttccca ctatagtgtg 360
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<211> 688

<212> DNA

<213> Homo sapiens

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 <223> n = A,T,C or G

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 caaaagcaca gaagcacatc acatacacca gcaagggttc caactactgc actgattaac 180  
 tagatactct caatagcttt tctatagctc gtcctagaaa aaaaaattaa attttcattt 240  
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 caaatggtat gtttttcagt acagttggat gtcgtcctac aagatgtggt gaatttgaaa 180  
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 gataactcaac tcaaatattt tgaaaaacag tttgaactgt cagaacaaac aaaattacca 360  
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 ccagtgggct gatgctggga cccttaggat ggggctccca gctcctttct cctgtgaatg 300  
 gaggcagaag acctccaata aagtgccttc tgggcttttt ctaacctttg tcttagctac 360  
 ctgtgtactg aaatttgggc ctttggatcg aatatggtca agagggtt 407

<210> 18  
 <211> 405  
 <212> DNA  
 <213> Homo sapiens

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caagttgttt ggacagaaa gctacagagt gtggtcctgg ctcttggtga agaattacga 180
ccacgctaac catgcctagg aaggaaagga gttattgttt tgtagaaagg tgctgggggt 240
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ccgagatagg taacagatga ggaagaaatt tgggcttgat tgaagtaatg ggggctgtct 360
gtgaagcttt gcagcagtac agcctaggta atttgctgag cctaa 405

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<210> 19
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<212> DNA
<213> Homo sapiens

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gaatgattgg tgatggcctg gatacggttt tggatgattt gagaagctaa atggaagata 300
caaggtccga ataaaaggag gagaaaaatg ggtattaaat gtctaagaat tgggaggacc 360
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<210> 20
<211> 331
<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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ctacatctct actgactttc gcttggaata cgtgttgga aaattgaggt gcttcattca 240
catctgtcac aataagnct gaacttggca aaagaacttg cattgtactt cacaccaaac 300
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<210> 22
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<212> DNA  
<213> Homo sapiens

<220>  
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<222> 317  
<223> n = A,T,C or G

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gagcagccac ctacttcaaa cccagcaccg gcagattgtg caggctgcgt cttcagcacc 180  
agcacttgaa actgactctt cccctccacc atatagtagt attactgggtg gaagtaccta 240  
caacttcaga tacagaagtt tacggtgagt tttatcccggt gccacctccc tatagcgttg 300  
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<211> 251  
<212> DNA  
<213> Homo sapiens

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gaagtttggc tggatcaagg gtgtattagt acgttgtatg ttaaaccattt ggggtgtgat 180  
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aataatgatg g 251

<210> 24  
<211> 421  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 182  
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<400> 24  
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cagctccagc cgcagcttar gcagcgggag gttctgtgtc ccagttgttt tccaatttca 120  
ccggtctccg tggatgamcg ygggacctgy caswgctcct gtktycctgc yagsacacca 180  
cnytttyccg tggacacrar kggaacckct tggaattcac agctyatgtt ctttctcara 240  
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agaaactgtt aaacctaact gtccgaattg acatcatgga raaaggatac catttcttac 360  
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c 421

<210> 25  
<211> 381  
<212> DNA  
<213> Homo sapiens

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<400> 27
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gaaaaaatat accacttcat agctaagtct tacagagaan aggatttgct aataaaactt 120
aagttttgaa aattaagatg cnggtanagc ttctgaacta atgccacag ctccaaggaa 180
nacatgtcct atttagttat tcaaatacca gttgagggca ttgtgattaa gcaaacaata 240
tatttgttan aactttgntt tttaaattact gntncttgac attacttata aaggagnctc 300
taactttcga tttctaaaac tatgtaatac aaaagtatan ntttcccat tttgataaaa 360
qqqcnanqa tactgantaq gaa                                     383
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<220>  
<221> misc_feature  
<222> 212  
<223> n = A,T,C or G
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<210> 29
<211> 401
<212> DNA
<213> Homo sapiens
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<210> 30
<211> 401
<212> DNA
<213> Homo sapiens
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<210> 31
<211> 297
<212> DNA
<213> Homo sapiens
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<400> 31  
acctccatta atgccaggtg ttctctctct gatgccagga atgccaccag ttatgccagg 60





<222> 184, 208, 251, 263, 284, 293, 296, 337, 395  
 <223> n = A,T,C or G

<400> 35  
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 gggtaaagcc tttggcgccc tttccgcaat ggcacatcag cagtaaaagt ggtaccaata 180  
 gcangaacag aaagggcaaa atcatgancg caattgctgc gggteccaag cccacatagg 240  
 aatcatgctg ngcttccctg canccgctgc catgcaagac actnacaaac tngngantgta 300  
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 <212> DNA  
 <213> Homo sapiens

<400> 36  
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 acaaagaaat gaacagttgt agggagaccc agcagcacct ttcctccaca caccttcatt 180  
 ttgaagttcg ggtttttgtg ttaagttaat ctgtacattc tgtttgccat tgttacttgt 240  
 actatacatc tgtatatagt gtacggcaaa agagtattaa tccactatct ctagtgtctg 300  
 actttaaatc agtacagtac ctgtacctgc acggtcaccc gctccgtgtg tcgccctata 360  
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<210> 37  
 <211> 401  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 183, 192, 232, 251, 308, 345, 348, 354, 363, 369, 391, 397,  
 400, 401  
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<400> 37  
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 antaagcatg gancntgatc ntttnctnng cactccttta cgacacggaa acangnatca 120  
 ncatgatggt accaganacc ttatcacena cgcgcaenga nctgactnat tccaaagagt 180  
 tgnggttacg gncatccggt cattgctcgt gccattgct gcagggctga tnctactggg 240  
 gcttattatg ntggccctga ggatgctcca caatgaatat aagcatgctg catgatcagc 300  
 ggcaacanat gctctgccgt ttgcactaca tctttcacgg acacnatntc gaanacgggc 360  
 acnttgcana gttagacttg gaatgcatgg ngccggncan n 401

<210> 38  
 <211> 401  
 <212> DNA  
 <213> Homo sapiens

<400> 38

```
<400> 41
ctggaactaaa aatgtccact atgggggtgca ctctacagtt tttgaaatgc taggaggcag 60
aaggggcaga gaataaaaaa catgaccttg taaaggaag aagggcaaaq gaaactaggt 120
```



<222> 212, 224

<223> n = A,T,C or G

<400> 45

```
gtgcctgctg cctggcagcc tggccctgcc gctgcctcag gaggcgggag gcatgagtga 60
gctacagtgg gaacaggctc aggactatct caagagattt tatctctatg actcagaaac 120
aaaaaatgcc aacagtttag aagccaaact caaggagatg caaaaaattc tttggcctac 180
ctatactgga atggtaaact cccgcgtcat anaaataatg caanaagccc agatgtggag 240
tgccagatgt tgcagaatac tcactatttc caaatagccc aaaatggact tccaaagtgg 300
tcacctacag gatcgtatca tatactcgag acttaccgca tattacagtg gatcgtattg 360
tgtcaaaggc tttaaacatg tggggcaaaag agatccccct g 401
```

<210> 46

<211> 401

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 70, 182

<223> n = A,T,C or G

<400> 46

```
gtcagaattg tctttctgaa aggaagcact cggaatcctt ccgaactttc caagtcctac 60
catgattcan agatactgcc ttctctctct ctgggatttt atgtgtttct gatagtgaat 120
tggtgatgta tttgctactt tgcttctttt ctctttcaag acttgatcat tttatatgct 180
gnttggagaa aaaaagaact tttggtagca aggaggtttc aagaaatgat tttggatttt 240
ctgctgcgga atttctcggc acctacctgt agtagggggc acttggtttg gttgcagagt 300
aagaaggtgg aagaatgagc tgtacttggg taagcagttg aaaccttttt tgagcaggat 360
ctgtaaaagc ataattgaat ttgtttcacc cccgtggatt c 401
```

<210> 47

<211> 401

<212> DNA

<213> Homo sapiens

<400> 47

```
ggtctgcagc aatgcacttc aaccatacat actgcttcca ctagctaata ccaaatgcag 60
gttctcagat ccagacaaat ggaggaaaag aacattttatg cttccgtttc agaaagccaa 120
gtcgtagttt tggcccttcc tttctctaaa gtttattccc aaaaacagggt agcattcctg 180
attgggcaga gaagaggata ttttcagccc acatctgctg caggtatgtc attttctccc 240
atcttcactg tgactagtaa agatctcacc acttctcttt ggaatttcca actttgcttg 300
tgattgaatg tcacttcgtg aatttgtatt atgtcagatc acttggcatt gctcttccat 360
atgcatcaag ttgccaggca ctaaacccaa tgttcatgaa c 401
```

<210> 48

<211> 430

<212> DNA

<213> Homo sapiens

<400> 48

```
acataacttg taaacttttt ctgcttgggg gctgtaacag acagaagagt aaagactaca 60
aggattttct gaagatgctt caatgaaaat catcatttcc tctttagtca tcccaagtct 120
tggtttgaaa aacttgggca tggacttata cagaccttga accaccactg acttatcatt 180
```

```
<210> 49
<211> 57
<212> DNA
<213> Homo sapiens
```

<400> 49  
ggatattaaca atatcangca ctctattcttc cctctttatg aaanggatna attttta 57

```
<210> 50
<211> 327
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 6, 10, 20, 22, 25, 28, 30, 37, 40, 41, 42, 51, 58, 59, 68,
69, 70, 75, 76, 79, 91, 95, 108, 109, 111, 142, 146, 180,
200, 201, 213, 218, 233, 235, 247, 265, 290, 299, 306
<223> n = A,T,C or G
```

<400>	50						
gatgngggtn	tccacaagan	tnaangtncn	tattaantan	nncttgtaga	nccacttnna	60	
ttaattgnnn	tatgnntgnc	cttctgggtgg	ntgtngaagc	ttcatatnnt	nttggacat	120	
cattacacgt	cttagctctt	tnaagnacaa	ctttaatgct	atatgaattt	tgccattttt	180	
gctaacactg	gtatgtctcn	ngcatnccacc	atnccacntg	gaattattta	ttncnttcat	240	
attaactntt	tgtttaccaa	atctnacttg	acccgaacga	aactttctgn	gtatttttang	300	
qcccnccat	tcttactttt	caagcct				327	

```
<210> 51
<211> 236
<212> DNA
<213> Homo sapiens
```

```
<400> 51
cgtctcgaag aagcgctgca ggcgatgat ggactgcacg tctgccttgt cctcagttaa 60
cttgttgaat tgcttgaaca tgcggccac atcctgggca aactcctgtg ggaagctgta 120
gggaggtgac aacttctcct ggaggcgggc acggatcagg gtcagatcca ggtgccaacc 180
gggctggtcc aqggagaagg tggagtcqta qccagacctg cccgggcggc cgctcg 236
```

```
<210> 52
<211> 291
<212> DNA
<213> Homo sapiens
```

<220>  
 <221> misc\_feature  
 <222> 168, 197, 202, 209, 218, 257, 271, 287  
 <223> n = A,T,C or G

<400> 52  
 ctcacatcct ggggtccggct gtagagctgc accatgggtgc tgagcgcccc ctccagctcc 60  
 ttgtagatgt aaaggacggc gaaggagctg tagtctgtgt ccacgatgcg cacgtccagg 120  
 tagcccaagg ccgggactct gaagttgtcc ctcgagagccc accttcangt actcgggcat 180  
 ccacctgggt acagccnttc gncctcggna actccatntg gactttacag gccgccctcc 240  
 tctgtgggcc tgatggncct tgcaggacat nggaacacgg gagctcnctt t 291

<210> 53  
 <211> 95  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 37, 60, 73, 76, 92  
 <223> n = A,T,C or G

<400> 53  
 gtctgtgcag tttctgacac ttgttggtga acatggntaa atacaatggg tategctgan 60  
 cactaagttg tanaanttaa caaatgtgct gnttg 95

<210> 54  
 <211> 66  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 4, 8, 11, 13, 26, 27, 35, 38, 43, 47, 57  
 <223> n = A,T,C or G

<400> 54  
 cctnaatnat ntnaatggtg tcaatnnccc tgaangangg gancggngga agccggnttt 60  
 gtccgg 66

<210> 55  
 <211> 265  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 25, 223, 241, 254, 259  
 <223> n = A,T,C or G

<400> 55  
 atctttcttc tcagtgcctt ggcctgtgtg agtctatctg gtaacactgg agctgactcc 60  
 ctgggaagag aggccaaatg ttacaatgaa cttaatggat gcaccaagat atatgacct 120

```

gtctgtggga ctgatggaaa tacttatccc aatgaatgcc gtgttatggt tttgaaaatc 180
ggaaacgcca gacttctatc ctcatcctaaa aatctgggcc ttncctgaaaa ccagggtttt 240
naaaatccca ttenggtenc cggcgc                                     265

```

```

<210> 56
<211> 420
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 85, 164, 198, 228, 257, 261, 283, 298, 326, 385, 390
<223> n = A,T,C or G

```

```

<400> 56
gagcggccgc cccgggcaggt cctcgcgggtg acctgatggg atttcaaaac cttgggttctc 60
agcaaggccc agatttttga atgangatag aagtctggcg tttccgattt tcaaaacata 120
acacgcattc attgggataa gtatttccat cagtcccaca gacnggggtca tatatcttgg 180
gtgcatccat taagttcntt tgtaaacatt tgggcctctc tttcccangg gaattcagct 240
cccagttggt taccaanatt naactccacc ggggccaaag gcncttgaaa aaaaaaanaa 300
ttccttggtt accttccttg ggcttnaagt tctggcgctc aaaagttcaa tttgaaaact 360
gcaccgcact taccacgtct cttcnagaan cctggggaca cctcggccgc gaccacgcta 420

```

```

<210> 57
<211> 170
<212> DNA
<213> Homo sapiens

```

```

<400> 57
gaagcggagt tgcagcgcct ggtggccgcc gagcagcaga aggcgcagtt tactgcacag 60
gtgcatcaact tcatggagtt atgttgggat aaatgtgtgg agaagccagg gaatcgcta 120
gactctcgca ctgaaaattg tctctccaga cctcggccgc gaccacgcta 170

```

```

<210> 58
<211> 193
<212> DNA
<213> Homo sapiens

```

```

<400> 58
attttcagtg cgagagtcta ggcgattccc tggcttctcc acacatttat cccaacataa 60
ctccatgaag tgatgcacct gtgcagtaaa ctgcgccttc tgctgctcgg cggccaccag 120
gcgctgcaac tccgcttcat cggcttcgcc cagctccgcc attgttcgcc acctgcccgg 180
gcggccgctc gaa                                     193

```

```

<210> 59
<211> 229
<212> DNA
<213> Homo sapiens

```

```

<400> 59
cgcaactctc gagcatttat atacaatagc aaatcatcca gtgtgttgta cagtctataa 60
tactccaaca gtctcccatc tgtattcaat ggcgccaccc aatacagtc tttgtttgga 120
tgctggggag agtaatccct accccaagca ccatatagat aagaaaaccc tctccagttg 180

```



agctgaacca cagacgggtt gctgatacct gcccgggcgg ccgctcgaa 229

<210> 60  
 <211> 340  
 <212> DNA  
 <213> Homo sapiens

<400> 60  
 tcgagcggcc gcccgggcag gtcctctaaa gatcaaaaca ccctgtcgt ccaccctcct 60  
 ccactccag ggaagctgtg gtcatggtgg tgtggtgaac atcagcaaac cgtctgtgg 120  
 tcagctcaac tggagagggt tttcttatct atatggtgct tgggtaggg attactctcc 180  
 ccagcatcca aacaaaggac tgtattgggt ggcgccattg aatacagatg ggaaactgtt 240  
 ggagtattat aaactggtac aacacactgg atgatttgct attgtatata aatgctcgag 300  
 aattgcggat cacctatgga cctcggccgc gaccacgctg 340

<210> 61  
 <211> 179  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 16, 76, 96, 110, 112, 122, 138, 140, 143, 155, 161, 163,  
 175, 178  
 <223> n = A,T,C or G

<400> 61  
 tttttgtgac ggacgnnttg agtacatgtc ccaggatcac atccagcagc tagagtggct 60  
 gggacaagct ggcgngggcc aagcactgtt gaaacnatag ggtctgggn gnactcgggt 120  
 tnaagtgggt ggtccgantn ttnataacct tgtcngaacc nancatctcg gttgncang 179

<210> 62  
 <211> 78  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 51, 72  
 <223> n = A,T,C or G

<400> 62  
 agggcggttcg taacgggaat gccgaagcgt gggaaaaagg gagcgggtggc nggaagacgg 60  
 ggatgagctt angacaga 78

<210> 63  
 <211> 410  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 48, 95, 182, 290, 314, 350, 365, 380  
 <223> n = A,T,C or G



<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 32, 46, 59, 132, 190, 234, 264, 272  
<223> n = A,T,C or G

<400> 67  
tcagggcctc caggcagcca gttttgcagg anattcagca cctagngtct tectgcctna 60  
cgctcccaag aacctgctcc tgcaggggga acatcagaac tcgtccttga tgtcaaaatg 120  
gggctgggtct tnaggcttga agtccagggt agggctgcca tctcattga gaattctccg 180  
ggcagtgtan ccgacgatgg ggtatttggc ttgtacact ttggtgaaaa cctnatccag 240  
ggcctccagt tccttgcccg tganaccctg antgtcatgg gtgaggctctg caggatccaa 300  
ggacatcttg gctaccctc tagtgagctc cttccccctc aaggcattgt aaggggctcc 360  
tcgtccataa aactcctttt cgg 383

<210> 68  
<211> 99  
<212> DNA  
<213> Homo sapiens

<400> 68  
tcacatctcc tttttttttt aactttttca aatttttgtg ttaaatagaa ggctaaaggg 60  
ttagatttaa gtttctgcta cattgaccct atttaccta 99

<210> 69  
<211> 37  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 10, 16, 21, 24, 27, 29  
<223> n = A,T,C or G

<400> 69  
gagaaggacn tacggncctg ntantanang aatctcc 37

<210> 70  
<211> 222  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 196  
<223> n = A,T,C or G

<400> 70  
gtgggtcatt tttgctgtca ccagcaacgt tgccacgacg aacatccttg acagacacat 60  
tcttgacatt gaagcccaca ttgtccccag gaagagcttc actcaaagct tcatggcgca 120  
tttcgacaga ttttacttcc gttgtaacgt tgactggagc aaagggtgacc accataccgg 180  
gtttgagaac acccantcac ctgccccggg cggccgctcg aa 222

<210> 71  
 <211> 428  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 281, 308, 364, 376, 383, 397, 413, 420  
 <223> n = A,T,C or G

<400> 71  
 caggagtatt ttgtagaaaa gccagaagag cattagtaga tgtatggaaa tatacggtag 60  
 ggcacacgct gacagtactt ttcccaagcc acgccgtatt tcttcttaca gtggtactcg 120  
 tcacgagctt ctccgtggac aagcaacatg gtgaaataaa ttatgtagaa ataaggcaga 180  
 atgtgggttaa aaccacatgg gagggaccac gccaaaggcca tgatgagatc acccaagtaa 240  
 ttgggggtggc gaacaaagcc ccaccatcca gaaactagaa naatttttcc cgttgaaata 300  
 tgaatggntt ttaaatgtgc aagcttttga tcaactggaa ttttcccgaa tgcctttttc 360  
 tganaattgc accttnggaa gantccttac cccaagnttc agaccattat ttnaaaagcn 420  
 ttggaact 428

<210> 72  
 <211> 264  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 218, 236, 247, 256  
 <223> n = A,T,C or G

<400> 72  
 gaataaagag cttactggaa tccagcaggg ttttctgccc aaggatttgc aagctgaagc 60  
 tctctgcaaa cttgatagga gagtaaaaag ccacaataga gcagtttatg aagatcttgg 120  
 aggagattga cacacttgat cctgccagaa aattttcaaag acagtagatt gaaaaggaaa 180  
 ggctttggta aaaaaaggtt caggcattcc tagccgantg tgacacagtg gagcanaaca 240  
 tctgcangag actgancggc tgca 264

<210> 73  
 <211> 442  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 249, 283, 313, 385, 390, 407  
 <223> n = A,T,C or G

<400> 73  
 ggcgaatccg gcgggtatca gagccatcag aaccgccacc atgacggtgg gcaagagcag 60  
 caagatgctg cagcatattg attacaggat gaggtgcatc ctgcaggacg gccggatctt 120  
 cattggcacc ttcaaggctt ttgacaagca catgaatttg atcctctgtg actgtgatga 180  
 gttcagaaaag atcaagccaa agaacttcaa acaagcagaa agggaagaga agcgagtcct 240  
 cggctctggng ctgctgccaa gggagaatct ggtctcaatg acngtagaag gaccttcttc 300

```

caaagatact ggnattgctc gagttccact tgetggaact tcccggggcc caaggatcgc 360
aaggcttctg gcaaaagaaa tccanacttn ggccgggacc acctaanca attcacacac 420
tggcgggcgt actagtggat cc 442

```

```

<210> 74
<211> 337
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 167, 268
<223> n = A,T,C or G

```

```

<400> 74
ggtagcagcg tctccagagc ctgatctggg gtcccagata cccaggcagc agcagccctg 60
gaggtaaagg gcaagctccc caatgtgagg ggagacccca ttcctgggtca gccaggcttt 120
cagaggagat agcaggctcga gggagccaac gaagaagaga ctgccancag gggaaggact 180
gtcccgccaa ggacagaact gattcagggg ggtcaatgct cctctagaga agagccacac 240
agaactgggg ggtccaggaa ccatgaanct tggctgtggg ctaaggagcc aggaatctgg 300
acagtgttct gggcataacc aggattctgg aattgta 337

```

```

<210> 75
<211> 588
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 444, 495, 531, 562
<223> n = A,T,C or G

```

```

<400> 75
catgatgagt tctgagctac ggaggaaccc tcatttcctc aaaagtaatt tattttttaca 60
gcttctggtt tcacatgaaa ttgtttgogc tactgagact gttactacaa acttttttaag 120
acatgaaaag gcgtaatgaa aaccatcccg tccccattcc tctctctctc tgaggggactg 180
gagggaagcc gtgcttctga ggaacaactc taattagtag acttgtgttt gtagattttac 240
actttgtatt atgtattaac atggcgtggt tattttttgta tttttctctg gttgggagta 300
tgatatgaag gatcaagatc ctcaactcac acatgtagac aaacattagc tctttactct 360
ttctcaaccc cttttatgat ttttaataatt ctcaactaac taattttgta agcctgagat 420
caataagaaa tgttcaggag agangaaaga aaaaaaatat atgttcccca tttatatatta 480
gagagagacc cttantcttg cctgcaaaaa gtccaccttt catagtagta ngggccacat 540
attacattca gttgctatag gncagcactg aactgcatta cctgggca 588

```

```

<210> 76
<211> 196
<212> DNA
<213> Homo sapiens

```

```

<400> 76
gcggtatcac agcctggccc ccatgtacta tcggggggcc caggctgcc tctgtgtcta 60
tgacatcacc aacacagata cttttgcacg ggccaagaac tgggtgaagg agctacagag 120
gcaggccagc cccaacatcg tcattgcact cgcgggtaac aaggcagacc tggacctgcc 180
cggcgggccg ctcgaa 196

```

<210> 77  
 <211> 458  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 196, 335, 409, 410, 417, 442, 447, 450  
 <223> n = A,T,C or G

<400> 77  
 agtagagatg gggtttcact gtgttaacca ggatgggtctt gatctcctgg cctcgtgatc 60  
 tgcccgccctc ggccctcccaa agtggttgga ttacaggcgt gaaccaccgc acccggccag 120  
 aaatgttagt ttttccctat tctctctoct ttttcctatt atatacttgg tcaaccagac 180  
 agccatccta ccccaaatg gtaatgcctc ttcattcctc atatgaggga ataaaagaga 240  
 aaaaagcttt tggaaaacat ccacttatct aatcatccca aatatgtaat caaaagtata 300  
 caactcatgt gaagaataca ctggtaaaat gttantatag gccaaaggtat cttgaattcc 360  
 tatatagaaa gctggtaaat gcccttttgg ctggaaccgc catcttcenn taattcnccc 420  
 aaaaatgacca aacacaaagg gnaagangan aagccccc 458

<210> 78  
 <211> 464  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 376, 397, 442, 454  
 <223> n = A,T,C or G

<400> 78  
 tccgcaaatt tcctgccggc aagggtcccag catttgaggg tgatgatgga ttctgtgtgt 60  
 ttgagagcaa cgccattgcc tactatgtga gcaatgagga gctgcgggga agtactccag 120  
 aggcagcagc ccagggtggtg cagtgggtga gctttgctga ttccgatata gtgccccag 180  
 ccagtacctg ggtgttcccc accttgggca tcatgcacca caacaaacag gccactgaga 240  
 atgcaaagga ggaagtgagg cgaattcttg ggctgctgga tgcttacttg aagacgagga 300  
 cttttctggt gggcgaaacga gtgacattgg ctgacatcac agttgtctgc accctgttgt 360  
 ggctctataa gcaggntcta gaaccttctt ttgcgacgac cttcgggcgg accacgctta 420  
 acccaaattc cacacacttg cnggccgtac taangaatc ccac 464

<210> 79  
 <211> 380  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 164, 188, 350  
 <223> n = A,T,C or G

<400> 79  
 ctgtatgacc agttttttcca tctccttcac ttctaccttg atcagctcga agtccagttc 60  
 agtgtaagaa atgggtatcct tctccatgat gtcaattcgg acagttaggt ttaacagttt 120



218, 241, 260  
 <223> n = A,T,C or G

<400> 82  
 agcgtgggtcg cggccgangt cctgacattc ctgccttctt atattaatta tacnaataaa 60  
 acaaaatagt gttgaagtgt tggagcggcg aaaatttttg gggggtggta tggacagaga 120  
 atgggcgatn ttctcanggc tgcttcaagt gggattgggg cngcgtggga tcatncagtg 180  
 gganagattn cnctgaccgg antctnttgg tanggatnat cttgtgggga tgtgcaagag 240  
 ncattcgtct cctgaatgan tgggt 264

<210> 83  
 <211> 410  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 2, 18, 169, 209, 245, 263, 265, 284, 378  
 <223> n = A,T,C or G

<400> 83  
 ancgtgggtcg cggccgangt ccacagttgt gggagagcca gccattgtgg gggcagctcc 60  
 acaggtaaga ctggtgtcct gagcagcgca catcatccag gacaatgggt cctgagccct 120  
 gaccaaaccg ggcatttcct ggggctgaca tggcccagcc acagcccant tgctgcaga 180  
 cgaaattggc atcattgggtg tcccagtant catcacacac ggtgccccag gaacctccgg 240  
 tatangaact ccaactcgcc tcnanacctg tcgcctccat tcncagcct cagggggcaa 300  
 actgggattc agatccttct gtgggtacag gtggtgatat cctgacaggc caactttctg 360  
 gcctgagtgt tgactgancg tgggcagacc tgcccgggcg gccgctcgaa 410

<210> 84  
 <211> 320  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 61, 81, 82, 90, 98, 111, 153, 182, 184, 187, 189, 198, 210,  
 211, 212, 238, 262, 277, 279, 289, 295, 299, 318, 320  
 <223> n = A,T,C or G

<400> 84  
 tcgaacggcc gcccgggcag gtctgcccc a ggtgtatcca tttgccgccc atctctatca 60  
 naaggagctg gctaccctgc nnogaogaan tctgaanat aatctcacc nccagatct 120  
 ctctgtcgca atggagatgt cgtcatcggg ggnccatgatc acagggcatt ggactcagag 180  
 anangtnanc acagtgtnga agcgattgan nnagttcagt tgctggtctt acccgatntt 240  
 ggaaggaagg aaaacgtgtt angacgtatc tcgatgnant tgaccaaanc tgaangctnc 300  
 agggggcatc gcaaaganan 320

<210> 85  
 <211> 218  
 <212> DNA  
 <213> Homo sapiens

<220>



<221> misc\_feature  
 <222> 117, 120, 152, 155, 193, 194  
 <223> n = A,T,C or G

<400> 85  
 tcgagcggcc gcccgggcag gtctgctgcc cgtgctgggtg ccattgcccc atgtgaagtc 60  
 actgtgccag cccagaacac tgggtctcggg cccgagaaga ctcctttctc caggctntan 120  
 gtatcaccac taaaatctcc aggggcacca tnganatcct ggggtgtccgc aatgttgcca 180  
 atgtctgtcc gcnnattggc tacccaactg ttgcatca 218

<210> 86  
 <211> 283  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 25, 183, 193, 204, 225, 240  
 <223> n = A,T,C or G

<400> 86  
 tcgacttctt gtgaagggtt tgganaaata tgtatcagtt cgttttatatt gggatttcaa 60  
 taatatcctt ggtgataatg ctgactccat ggcttctgac cccaaaaatt gaccctgctg 120  
 cacttggttg tagccctgag attgattttt gtagccacga ttgtttcctc gtcctctgaa 180  
 gtnctgggtg tanttccctc tgtngggcat tcccctctgt tgtanttccc tctgtttgan 240  
 taactaccac ggccaggaaa aacaggggca cgaaggatat gat 283

<210> 87  
 <211> 179  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 66, 81, 89, 113, 120, 135, 148, 161  
 <223> n = A,T,C or G

<400> 87  
 agcgtggtcc cggccgatgt ctttctgtgt aagtgcataa cactccacat acttgacatc 60  
 cttcangtca cgggccagct nttcagcant ctctggagtg ataggctact gtntgttctn 120  
 ggcaagtgtc tcaanaatac aggggtontc tctgagatga ntttcagtcc cgaaccctc 179

<210> 88  
 <211> 512  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 27, 30, 75, 106, 198, 216, 294, 349  
 <223> n = A,T,C or G

<400> 88  
 tcgagcggcc gcccgggcag gtcctanacan agaatacaca aatttatgga gagttaacag 60



<400> 91  
 tcgagcggcc gnccgggcag gtcccggtg gttgtttgcc gaaatgggca agttcntnaa 60  
 ncctgggaag gtggtgcntg tncctggctgg acgctactcc ggacgcnaag ctgtcntcgt 120  
 gangancatt gat 133

<210> 92  
 <211> 232  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 18, 168, 173, 179, 219  
 <223> n = A,T,C or G

<400> 92  
 agcgtggtcg cgcccgangt ctgtcacttt gcgggggtag cggcgaattc cagccaccag 60  
 agcatggctg taggggcat ctgaggtgcc atcatcaatg ttcttcacga tgacaagctt 120  
 tgcgtccgga gtacgtcca gccaggacaa gcaccacctt cccacgtntt cangaactng 180  
 cccatttcgg cataaccacc cgggacctgc ccgggcggnc gtcgaaaag cc 232

<210> 93  
 <211> 480  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 19, 27, 221, 406, 439  
 <223> n = A,T,C or G

<400> 93  
 agcgtgggtc gcggccgang tctgtangct caccggccag agaagaccac tgtgagcatt 60  
 ttgccgtata tctgccctg ccatttgttc actttttaaa ctaaaatagg aacatccgac 120  
 acacaccgtt tgcacgtct tctcccttga tattttaagc attttcccat gtcgtgagtt 180  
 tctcagaaac atgtttttaa caattgtact atttagtcat ngctcattta ctataattta 240  
 tctgaccatt tccctactgt taaaatactt aagacggttt ctgatttttc cactatttaa 300  
 ataatgctgt gatgaatata tttaaaatct tctgatttct tacttttttc ccccttagat 360  
 gcctggaagt ggtattttga ggtgaaagag tttgttcatt ttgaanatat ttctgtctct 420  
 ctctcgacct gatgtgtana cgctcacttc cagtttagcag aaccaccta gtttgtgtct 480

<210> 94  
 <211> 472  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 9, 33, 70, 105, 129, 135, 136, 154, 180, 190, 213, 232, 235,  
 286, 292, 293, 305, 335, 341, 363, 372, 400, 418, 422, 425,  
 472  
 <223> n = A,T,C or G

<400> 94  
 tcgagcggnc gcccgggcag ggtctgatgt cantcacaac ttgaagggat gccaatgatg 60  
 taccaatccn atgtgaaatc tctcctctta tctcctatgc tgganaaggg attacaaagt 120  
 tatgtggcng ataannaatt ccatgcacct ctantcatcg atgagaatgg agttcatgan 180  
 ctggtgaacn atggtatctg aacccgatac cangttttgt ttgccacgat angantagct 240  
 tttatttttg atagaccaac tgtgaaccta ccacacgtct tggacnactg anntctaact 300  
 atccncaggg ttttattttg cttggtgaac tcttncagct nttgcaaact tcccaagatc 360  
 canatgactg antttcagat agcattttta tgattccan ctattgaag gtcttatnta 420  
 tntcnttttt tccaagccaa ggagaccatt ggacctcggc cgcgaccacc tn 472

<210> 95  
 <211> 309  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 97, 117, 139, 173, 184, 193, 206, 230, 236, 239, 242, 265,  
 280, 299  
 <223> n = A,T,C or G

<400> 95  
 tcgagcggcc gcccgggcag agtgtcgagc cagcgtcgcc gcgatgggtgt tgttggagag 60  
 cgagcagttc ctgacggaac tgaccagact tttccanaag tgccggacgt cgggcanagt 120  
 ctatatcacc ttgaagaant atgacggctg aaccaaacc attccaaaga aangtactgt 180  
 gganggcttt gancccgag acaacnagtg tctgttaaga actaccgatn ggaaanaana 240  
 anatcagcac tgtgggtgag ctccnaggga agttaataan tttcgatgg gcttattcna 300  
 acctcctta 309

<210> 96  
 <211> 371  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 327  
 <223> n = A,T,C or G

<400> 96  
 tcgagcggcc gcccgggcag gtccaccact cacctactcc ccgtctctat agatttgcct 60  
 gttctgggca gttctcagca atggaatcct actgtgtatc tttttgtgac tggttcttta 120  
 actcagcatc acattttcaa ggttcatcca tgetgcagcc tggctccgta ctggtgacag 180  
 tacttcattt ctctctccct tttgttcaga ccaaggtctc cctctgtccc caaggctaaa 240  
 gtgcagttgg tgtgatcatg gctcactgca gcctcaaact cctggactca aacagtcctc 300  
 ccatctcagc ctcccaaagt gctgatntta taagttgcaa gccctgcacc cagcctgtat 360  
 ctccagtttg t 371

<210> 97  
 <211> 430  
 <212> DNA  
 <213> Homo sapiens

<220>

<221> misc\_feature

<222> 5, 25, 30, 34, 41, 42, 43, 44, 46, 60, 97, 116, 141, 145,  
158, 183, 184, 226, 232, 243, 245, 257, 271, 288, 298, 300,  
303, 308, 318, 325, 329, 354, 390, 428

<223> n = A,T,C or G

<400> 97

```
tcgancggcc gcccgggcag gtttnttttn tttntttttt nnnngntagt atttaaagan 60
atttattaaa tcatcttata accaaaatgg aaacatnttc caactagaaa catgcnacca 120
tcatcttccc cagtccagtc ncaangtcca atatttttct tgcctctgca gataaaaaagt 180
tcnnatTTTT ataccactc ttactccccc ccaaaatTTT aattcngtcc tnccttaaaa 240
ttncnccggg taacaantta ccaaaatggc naaccaatta ttttaanaaa aagttgcnct 300
ttnaaaangg aaactttntg gcaanttanc ctcttttccc ttcccacccc ccantttaag 360
gggaaaacaa tggcactttg ctcttgcttn aaccctaaat tgtcttccaa aaactattaa 420
aatgttnaa 430
```

<210> 98

<211> 307

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 3, 15, 19, 20, 25, 28, 43, 70, 75, 81, 102, 139, 162, 203,  
259, 260, 283, 295

<223> n = A,T,C or G

<400> 98

```
tcnaacggcc gcccnngcnn gtctngcngc acctgtgcct canccgtcga tacctggctg 60
attgggacan ggaanacaat ntggTTTTca gggaggccac anatttgag aaacggatga 120
attctccttt attccgaant cagctccttg gtctccgtag anggtgatct tgaaattctc 180
ctggtttgaa aactttcttg aanaaacctt acctgtctgt tgtatttggt ctccactcgt 240
gacaagtact cggtatccnn ggtactctta atgtgccac gtnaactccc cgggntggca 300
actggaa 307
```

<210> 99

<211> 207

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 5, 19, 24, 25, 38, 46, 59, 61, 66, 69, 81, 83, 88, 96, 98,  
104, 106, 115, 126, 132, 135, 146, 152, 160, 165, 172, 173,  
187, 188, 189, 192, 202, 203

<223> n = A,T,C or G

<400> 99

```
gtccnggacc gatgttgca aganntttct tgggtccanta ggttcnaaaa aatgataanc 60
naggtntanc acgtgaagat ntntatanag tcttantnaa aacnctaga tctgnatgac 120
gataantcga anacngggg aggggntgag gngaggtggn gtganggaag anntgttgat 180
aaaaganna gntgataaga annagac 207
```

<210> 100  
 <211> 200  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 3, 5, 6, 14, 21, 23, 29, 46, 71, 150, 151, 166, 176, 185,  
 186, 195  
 <223> n = A,T,C or G

<400> 100  
 acntnnacta gaantaacag ncnttctang aacactacca tctgtnttca catgaaatgc 60  
 cacacacata naaactccaa catcaatttc attgcacaga ctgactgtaa ttaattttgt 120  
 cacaggaatc tatggactga atctaatagc nccccaaatg ttgttngttt gcaatntcaa 180  
 acatnnttat tccancagat 200

<210> 101  
 <211> 51  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 35  
 <223> n = A,T,C or G

<400> 101  
 tcgagcggcc gcccgggcag gtctgaccag tgganaaatg cccagttatt g 51

<210> 102  
 <211> 385  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 50, 145, 202, 214, 306, 362  
 <223> n = A,T,C or G

<400> 102  
 aacgtggtcg cggccgaagt ccatgggtgct gggattaatc cactgtgacn gtgactctga 60  
 gttgagttgt ttttcaatct tctccaagcc tgtggactca tcctccacat ccttgggtag 120  
 taggatgaac atgctgaaga tgctnatttt gaaaaggaac tctatgaatc ttacaattga 180  
 atactgtcaa tgtttcccca tnacagaacg tggnccccca aggttccatc atctgcactg 240  
 ggtttgggtg ttctgtcttg gttgactctt gaaaaggac atttcttttt gttttcttga 300  
 attcanggaa attttcttca tccacttttg ccacaaaagt taggcagcat ttaaccccca 360  
 anggattttg ggtctgggtc cttcc 385

<210> 103  
 <211> 189  
 <212> DNA  
 <213> Homo sapiens

<220>

<221> misc\_feature

<222> 72, 138, 156

<223> n = A,T,C or G

<400> 103

```
agcgtggtcg cggccgaagt ctgcagcctg ggactgaccg ggaagctctg attatttacc 60
caccacaggt angttgtgtt ctgaatctca agttcacagg ttaaggctac agcatcctca 120
tcctccacgg ggttggantt gttgctggtg atgaanggtt tgggggtggct ctgcataact 180
gttgatctc                                     189
```

<210> 104

<211> 181

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 38, 82, 83, 97

<223> n = A,T,C or G

<400> 104

```
tcgagcggcc gcccgggcag gtccaggtct ccaccaangc accaccgtgg gaagctggta 60
attgatgcc accttgaagc cnntggggca ccatecncca actggatgct gcgcttggtt 120
ttgatggtgg caatggcaca ttgactcttt tgggaaccac ttcaccacgg tacaacaggc 180
a                                             181
```

<210> 105

<211> 327

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 80, 116, 167, 175, 182, 194, 210, 277

<223> n = A,T,C or G

<400> 105

```
tcgagcggcc gcccgggcag gtcttctgtg gagtctgcgt gggcatcgtg ggcagtgggg 60
ctgccctggc cgatgctcan aaccccagcc tctttgtaaa gattctcatc gtgganatct 120
ttggcagcgc cattggcctc tttgggggtca tcgtcgcaat tcttcanacc tccanaatga 180
anatgggtga ctanataata tgtgtgggtg gggccgtgcc tcacttttat ttattgctgg 240
ttttcctggg acagaactcg ggcgcaaca cgcttanccg aattccaaca cactggcggg 300
cgttactagt ggatccgagc tcggtac                                     327
```

<210> 106

<211> 268

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 18, 73, 96, 117, 129, 161, 195, 219, 247, 250, 255, 257

<223> n = A,T,C or G

```

<400> 106
agcgtggtcg cggccgangt ctggcgtgtg ccacatcggt cccacctcgc tttacaaaac 60
agtcctgaac ttinatctaataaaaattattg tacacnacat ttacattaga aaaaganagc 120
tgggtgtang aaaccggggcc tgggtgttccc ttttaagcgaa ngtggtctcca cagttggggc 180
atcgctcgctt cctcnaagca aaaacgccaa tgaacccna aggggggaaaa aggaatgaag 240
gaactgnccn ggggangnccg ctccgaaa 268

```

```

<210> 107
<211> 353
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 70, 167, 179, 184, 185, 196, 198, 215, 216, 221, 235, 286,
288, 299, 312, 321, 335, 344
<223> n = A,T,C or G

```

```

<400> 107
tcgagcggcc gcccgggcag gtggccaggc catgttatgg gatctcaacg aaggcaaaca 60
cctttacacn ctagatgggtg gggacatcat caacgccctg tgcttcagcc ctaaccgcta 120
ctggctgtgt gctgccgcag gcccagcat caagatctgg gatttanagg gaaagatcnt 180
tgtnnatgaa ctgaancnta aattatcagt tccannacca ngcaaaaacc acccngtgca 240
ctccctggcc tgggtctgctg atgggacctc gggcgcgaa acgctnancc caattccanc 300
aactggggcg gncgttacta ntggatccga actcnggtac caancttggc gtt 353

```

```

<210> 108
<211> 360
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 61, 121, 145, 194, 202, 217, 237, 252, 254, 275, 279, 318,
330, 343, 346, 352
<223> n = A,T,C or G

```

```

<400> 108
agcgtggtcg cggccgaagt cctggcctca catgaccctg ctccagcaac ttgaacagga 60
naagcagcag ctacatcctt aagggtccgga aagtttagatg aagatttgga tcctgcattg 120
nctgcctcc cacctatctc tcccnaatta taaacagcct ccttggggaag cagcagaatt 180
taaaaactct cccnctgccc tnttgaacta cacaccnacc gggaaaacct ttttcanaat 240
ggcacaaaaa tncnagggaa tgcatttcca tgaangaana aactgggtta cccaaaatta 300
ttgggttggg gaaatccngg ggggggtttt aaaaaagggc aanccnccaa anaaaaaac 360

```

```

<210> 109
<211> 101
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature

```



<222> 10, 47, 77, 82  
 <223> n = A,T,C or G

<400> 109  
 atcgtggtcn cgccgaagt cctgtgtcct ggatgggccc tgtgcancga atccgttggc 60  
 gactcctaac taccaanaaa angactctcg gaagaaattt c 101

<210> 110  
 <211> 300  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 4, 56, 116, 130, 236, 243, 246, 248, 271, 276, 280  
 <223> n = A,T,C or G

<400> 110  
 ccanggaaac ccagagtcac atgagatagg gtggctttcg ggacaggggg tcagangaat 60  
 ggtacatgga tctcagcccc tgatggacac ggaacagggtg tggtcagaac tcccangatt 120  
 ctgcatccan gatccagtct ctatagaagt tatggatcat tccttcattt cattcccccc 180  
 ttcatgaaaa aacttctgaa caagcctttt ttctcacttt ggggccctgt ttggcncaag 240  
 gtnttnantt ggggaaaaaa aaacaaatcc nttccttan ccctccgtgg ggaatgacct 300

<210> 111  
 <211> 366  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 42, 65, 90, 180, 250, 257, 264, 296, 333, 337  
 <223> n = A,T,C or G

<400> 111  
 cgagcggccg cccgggcagg tccttgtgtt gccatctgtt ancattgatt tctggaatgg 60  
 aacancittc tcaaagtttg gtcttgctan tcatgaagtc atgtcagtgt cttaaagtcac 120  
 tgctgctcac ttccttaccc agggaatata ctgcataagt ttctgaacac ctgttttcan 180  
 tattcactgt tcctctcctg cccaaaattg gaagggacct catttaaaaa tcaaatttga 240  
 atcctgaaan aaaaacngga aatntttctc ttggaatttg gaatagaatt attcanttga 300  
 ataacatgtt ttttccccct gccttgctct tcncaanaac atctggacct cggccgcgcac 360  
 acctta 366

<210> 112  
 <211> 405  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 7, 23, 29, 52, 119, 136, 139, 147, 172, 204, 232, 247, 320,  
 323, 324, 362, 386  
 <223> n = A,T,C or G



gagtttttgc atttgcgtgtt cctgggttgca aaaggcaaaa gaaaatctaa aaatagtctg 360  
 tgtgtgtcca cgacatgctc gctcctttga gaatctcaaa c 401

<210> 116  
 <211> 301  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 1, 12, 13, 33, 34, 88, 89, 90, 104, 106, 116, 121, 131, 142,  
 147, 150, 160, 164, 166, 175, 197, 251, 285, 298  
 <223> n = A,T,C or G

<400> 116  
 ngatttaatt gnnagcttct ttttaatgga atnnttggct aaaatgaatt gatgattatg 60  
 aatatcccta ggaggagtta gcatggannn tgatcatttt cttngnactc ctttangaca 120  
 nggaaacagg natcagcatg anggtanacan aaaccttatn accnangcgc acganctgac 180  
 ttcttccaaa gagttgnggt tccgggcagc ggtcattgcc gtgccattg ctggagggt 240  
 gattctagtgt ntgcttatta tgctggccct gaggatgctt ccaanatgaa aataagangc 300  
 t 301

<210> 117  
 <211> 383  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 32, 38, 49, 100, 142, 147, 181, 250, 258, 272, 274, 297,  
 340, 341, 366, 368, 377  
 <223> n = A,T,C or G

<400> 117  
 aattgcaact ggacttttat tgggcagtta cnacaacnaa tgttttcana aaaatatttg 60  
 gaaaaaatat accacttcat agctaagtct tacagagaan aggatttgct aataaaactt 120  
 aagttttgaa aattaagatg cnggtanagc ttctgaacta atgccacacag ctccaaggaa 180  
 nacatgtcct atttagttat tcaaatacca gttgagggca ttgtgattaa gcaaacaata 240  
 tatttgttan aactttgntt ttaaattact gntncttgac attacttata aaggagnctc 300  
 taactttcga tttctaaaac tatgtaatac aaaagtatan ntttcccat tttgataaaa 360  
 gggecnanga tactgantag gaa 383

<210> 118  
 <211> 301  
 <212> DNA  
 <213> Homo sapiens

<400> 118  
 ctgctagaat cactgccgct gtgctttcgt ggaaatgaca gttccttggt ttttttggtt 60  
 ctgtttttgt tttacattag tcattggacc acagccattc aggaactacc ccctgcccc 120  
 caaagaaatg aacagttgta gggagaccca gcagcacctt tcctccacac accttcattt 180  
 tgaagttcgg gtttttggtg taagttaatc tgtacattct gtttgccatt gttacttgta 240  
 ctatacatct gtatatagtg tacggcaaaa gagtattaat ccactatctc tagtgcttga 300  
 c 301

<210> 119  
 <211> 401  
 <212> DNA  
 <213> Homo sapiens

<400> 119  
 taaggacatg gacccccggc tgattgcatg gaaaggagg gcaagtgttg cttgtttgga 60  
 tacaacacag gaactgtgga tttatcagcg agagtggcag cgctttggtg tccgcatgtt 120  
 acgagagcgg gctgcgtttg tgtggtgaat ggggaggaaa tgctactgcc gaagaccaa 180  
 aacaagcttc ttggtataaa agactcttac agaatatgtg tattgtaatt tattgatctg 240  
 gatgcttaag tgtcatggac agtaaatgaa tttgaacttt atgtttgagg acatgacatt 300  
 gggtttgaaa atataaactg cttttgagca gtttaagtca gggcatttga gaataaaata 360  
 ggaactttct cttcagtttg taaaactctc ttgccctctc t 401

<210> 120  
 <211> 301  
 <212> DNA  
 <213> Homo sapiens

<400> 120  
 tccagagata ccacagtcaa acctggagcc aaaaaggaca caaaggactc tcgacccaaa 60  
 ctgccccaga ccctctccag aggttggggg gaccaactca tctggactca gacatatgaa 120  
 gaagctctat ataaatccaa gacaagcaac aaacccttga tgattattca tcaattgggt 180  
 gagtgtccac acagtcaagc tttaaagaaa gtgtttgctg aaaataaaga aatccagaaa 240  
 ttggcagagc agtttgtcct cctcaatctg gtttatgaaa caactgacaa acacctttct 300  
 c 301

<210> 121  
 <211> 2691  
 <212> DNA  
 <213> Homo sapiens

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<210> 122

<211> 683

<212> PRT

<213> Homo sapiens

<400> 122

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Val Leu Gln His Ser Arg Leu Arg Gly Arg Gln His Gly Pro Asn Val
          35          40          45
Cys Ala Val Gln Lys Val Ile Gly Thr Asn Arg Lys Tyr Phe Thr Asn
          50          55          60
Cys Lys Gln Trp Tyr Gln Arg Lys Ile Cys Gly Lys Ser Thr Val Ile
65          70          75          80
Ser Tyr Glu Cys Cys Pro Gly Tyr Glu Lys Val Pro Gly Glu Lys Gly
          85          90          95
Cys Pro Ala Ala Leu Pro Leu Ser Asn Leu Tyr Glu Thr Leu Gly Val
          100         105         110
Val Gly Ser Thr Thr Thr Gln Leu Tyr Thr Asp Arg Thr Glu Lys Leu
          115         120         125
Arg Pro Glu Met Glu Gly Pro Gly Ser Phe Thr Ile Phe Ala Pro Ser
          130         135         140
Asn Glu Ala Trp Ala Ser Leu Pro Ala Glu Val Leu Asp Ser Leu Val
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Ser Asn Val Asn Ile Glu Leu Leu Asn Ala Leu Arg Tyr His Met Val
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Arg	Ala	Ala	Val	Ala	Ala	Ser	Gly	Leu	Asn	Thr	Met	Leu	Glu	Gly	Asn
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Pro	Ser	Glu	Thr	Leu	Asn	Arg	Ile	Leu	Gly	Asp	Pro	Glu	Ala	Leu	Arg
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Val	Gly	Cys	Ser	Gly	Asp	Met	Leu	Thr	Ile	Asn	Gly	Lys	Ala	Ile	Ile
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Glu	Leu	Leu	Ile	Pro	Asp	Ser	Ala	Lys	Thr	Leu	Phe	Glu	Leu	Ala	Ala
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Glu	Ser	Asp	Val	Ser	Thr	Ala	Ile	Asp	Leu	Phe	Arg	Gln	Ala	Gly	Leu
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Asp	Ala	Lys	Glu	Leu	Ala	Asn	Ile	Leu	Lys	Tyr	His	Ile	Gly	Asp	Glu
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Ile	Leu	Val	Ser	Gly	Gly	Ile	Gly	Ala	Leu	Val	Arg	Leu	Lys	Ser	Leu
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Gln	Gly	Asp	Lys	Leu	Glu	Val	Ser	Leu	Lys	Asn	Asn	Val	Val	Ser	Val
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Asn Lys Glu Pro Val Ala Glu Pro Asp Ile Met Ala Thr Asn Gly Val  
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 Val His Val Ile Thr Asn Val Leu Gln Pro Pro Ala Asn Arg Pro Gln  
 625 630 635 640  
 Glu Arg Gly Asp Glu Leu Ala Asp Ser Ala Leu Glu Ile Phe Lys Gln  
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 Ala Ser Ala Phe Ser Arg Ala Ser Gln Arg Ser Val Arg Leu Ala Pro  
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 Val Tyr Gln Lys Leu Leu Glu Arg Met Lys His  
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 <211> 1205  
 <212> DNA  
 <213> Homo sapiens

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 ccaatgaaga agacaaagtc taaggaagaa tcggccagtg ggccttcggg agggcggggg 540  
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 catacataat atatgacttc ctagggatct gaaatccata aactaagaga aactgtgtat 720  
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<210> 124  
 <211> 583  
 <212> DNA  
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<210> 125  
 <211> 783  
 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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 <213> Homo sapiens

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 tttgtctcca atttcaaact gacctaaaggc tcttactcct ggattttttg tttttaaacc 180  
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 agtttccttt gcctctcttc cttctaccag gtcatgtttt ttactctctg ccccttctgc 360



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<210> 128

<211> 657

<212> DNA

<213> Homo sapiens

<400> 128

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<210> 129

<211> 1220

<212> DNA

<213> Homo sapiens

<400> 129

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<210> 130

<211> 1274

<212> DNA

<213> Homo sapiens

<400> 130

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<210> 131
<211> 554
<212> DNA
<213> Homo sapiens

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<222> 403
<223> n = A,T,C or G

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gggctcacct atgctactgg tccttttggc aaaaaaggaa aatgatagag ccagggttgc 300
ccctgatgta gcagccttac tgtggagggg ccaaagctgg tgttcagagc tcacccaagg 360
agggagggtg taagggtgta tgcgttctgc tgaacctact ggntggatat aacatgaggc 420
ttggggtgag ggaaaccaag taggggttgg agaaggagca gcaccttgt macacctggc 480
taccatagc tagctttctg ccctcaaaaa ctcagccttc aagggatcca gcccacacac 540
gccacaggca gcag                                     554

```

```

<210> 132
<211> 787
<212> DNA
<213> Homo sapiens

```

```

<400> 132
ctggtcaccc aactcttgtg gaagagggga attgagatcg agtactgaat atctggcaga 60
gaggctggaa tccttcagcc ccagagccca gggaccactc cagtagatgc agagaggggc 120
ctgcccaggg gtcagggcag tgggtatcac tggtgacatc aagaatatca gggctgggga 180

```

```

ggcatctttg tttcctggtg cctcctcaa agttgctgac actttgggga cgggaagggg 240
tagaagtagg gctgctcctt ttggagctgg agggaataga cctggagaca gagttgaggc 300
agtcgggctg tccaggttct aagcatcaca gcttctgcac tgggctctga ggagattctc 360
agccagagga tcccagcctc ctccctccctc aaatgtcagt ccaagcaaat accaaagcaa 420
cgcatcgatt ttgtggaagt caattagaga tgtggggagc tatcgagac aagcactatt 480
gtaccttttc acctccacac ttgtcacaaag cagggaactgt ctccctcccca ctttgcttgc 540
cacgcctgcc atggcttgag ctgggggtgag gactggtctt tatcttcttt gggagatcct 600
gactggttgc gcacttgcta agggcaggaa gtctggaggg ctgcaggaat ggtgccgttg 660
ataaacagggt ggacttataa tcatcatgca ctgcaattgt agaacatagt ctccctgcctt 720
ttctcatttg tataattgtc tgggtcaata ttctcccaat attgggaggg gctctgcagc 780
cctccag 787

```

```

<210> 133
<211> 219
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 19, 191
<223> n = A,T,C or G

```

```

<400> 133
tactgctcta agttttgtna aatttttcat attttaattt caagcttatt ttggagagat 60
aggaagggtca ttccatgta tgcataataa tcctgcaaag tacaggtact ttgtctaaga 120
aacattggaa gcagggttaaa tgttttgtaa actttgaaat atatggtcta atgtttaagc 180
agaattggaa nagactaata tcggttaaca aataacaac 219

```

```

<210> 134
<211> 234
<212> DNA
<213> Homo sapiens

```

```

<400> 134
gatttttaaaa acatcatgac tttgaactga aaaacataca cgtttagcac acaaattattg 60
taatatgaat gaactccaac tccatttgaa aacatgtgaa tcaaagtaca gttttagaag 120
ttagtaattc acatttaagc aagtttagcgc cttgctgaat acagcctttg taaaaaagag 180
acttagtgca tattttaatg gtacattgtg gttttgtacc atttggttga gttg 234

```

```

<210> 135
<211> 414
<212> DNA
<213> Homo sapiens

```

```

<400> 135
ctccagcctg gctatatccg gtcccgttat aacctgggca tcagctgcat caacctcggg 60
gctcaccggg aggctgtgga gcactttctg gaggccctga acatgcagag gaaaagccgg 120
ggccccggg gtgaaggagg tgccatgtcg gagaacatct ggagcaccct gcgtttggca 180
ttgtctatgt taggccagag cgatgcctat ggggcagccg acgcgcggga tctgtccacc 240
ctcctaacta tgtttggcct gcccagtgta cagtgggacg ggctgccctg tgagtgtcca 300
cctggggatt aaatatgtct tcaacaaggg aggcctggct tctacaatgg tttaggtaaa 360
ggggcctttg aagtagttct ggccaggctt gcaatacaca caacacaaga gccca 414

```

```

<210> 136

```

<211> 461  
 <212> DNA  
 <213> Homo sapiens

<400> 136  
 gaagtgatta ataggtttat ttgcatatac acagagaaga gtcagcattg ttgggtgaga 60  
 agaggcaggc tgtgaggagg taaggcttca gcagaggaag gcacottgac agacaacacg 120  
 agactcctat taaatcagca cagttgcaaa cttcacctgc ctcaagccaa cagctcattg 180  
 aactcatatg tcgattgaga atcattttaca aaaccaggag agaaacaatg ggaagagcaa 240  
 cggctctctca tccctggacc tgacactcaa aacattatgt acaggatgca ggaacaaaat 300  
 ctgtctgac agtgccctct cctgctggga aaaacaccca tcacggaaga atttggggat 360  
 taaatatgtc ttcaacaagg gaggcctggc ttctacaatg gtttaggtaa aggggccttt 420  
 gaagtagttc tggccaggct tgcaatacac acaacacaag a 461

<210> 137  
 <211> 269  
 <212> DNA  
 <213> Homo sapiens

<400> 137  
 atagcaaattg gacacaaatt acaaattgtgt gtgcgtggga cgaagacatc tttgaaggtc 60  
 atgagtttgt tagtttaaca tcatatattt gtaatagtga aacctgtact caaaatataa 120  
 gcagcttgaa actggcttta ccaatcttga aatttgacca caagtgtctt atatatgcag 180  
 atctaattgta aaatccagaa cttggactcc atcgtaaata ttattttatgt gtaacattca 240  
 aatgtgtgca ttaaatatgc ttccacagt 269

<210> 138  
 <211> 452  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 414  
 <223> n = A,T,C or G

<400> 138  
 ctccatggga ggcaaaatat agagaattta tggtgcccaa ctcttatgta atcactggac 60  
 taatcttccc tggtaactat gcaacatttg gacagaaagg cacacaaaaa agtttaaata 120  
 tttcatgtgc caatctggaa aaaaataaatt taaatcaaca gaacagacag tacatctaca 180  
 caaatgagga aagcagaaaa gatacctcac attcatttat ctcaggtttc aaagtggctt 240  
 caatgctaaa gtaaatgtat taacatttgg aaaatacaag acaatttttt tgtttgtttt 300  
 caattttttt agctctatac aatgattaca acataagaca aaaaaaaaaa aaaaacacaa 360  
 aaaacaaaac aaaaaaggag ttcaggactt gttatcagtg tccaagtggc taanaactgg 420  
 ttcccataac aagcattgaa agttaaggcc cc 452

<210> 139  
 <211> 474  
 <212> DNA  
 <213> Homo sapiens

<400> 139  
 tgtgcctcat tgaggttaca attgaaacag atgtgagcac ctgagagact ttccctgatt 60  
 atattcctcc acaaacact gtacatatt accttatttt atcttcttga aattcttatt 120

```

cattggcttg tttgttgtct ctttgcatta gatatatgta agtccttgg cataaatttg 180
acattggttag gggactgaca ttctaacctg gcccaggccc taggagagag ataactccac 240
aaagcagcac atactatctt aggttagcag ggagctaact caccatgtag cagatgaaaa 300
aaaccaaacc cagcactgtg cataaatacc acttgccaag aagtcaggtc ctcggcaacc 360
gagaatcaac ctcagcacia acgcagggtg ctgggctctg ttccccctta gccaccacct 420
cagcctctcc cctccccctg cccaagtgcc caagagcttg gctctctgtg cttt 474

```

```

<210> 140
<211> 487
<212> DNA
<213> Homo sapiens

```

```

<400> 140
cttccccgcc tcgtgttcct gagaaacgga ttaatagccc tttatcccc tgcaccctcc 60
tgcaggggat ggcactttga gccctctgga gccctcccct tgctgagcct tactctcttc 120
agactttctg aatgtacagt gccgttggtt gggatttggg gactggaagg gaccaaggac 180
actgacccca agctgtcctg cctagegtcc agcgtcttct aggagggtgg ggtctgcctg 240
tcctgggtgtg gttgggtttg cctgttttgc tgtgactacc cccccccctc ccogaaccga 300
gggacggctg cttttgtctc tgctcagat gccacctgcc ccgcccattg tccccatcag 360
cagcatccag acttttcagga agggcagggc cagccagtcc agaaccgcat cctcagcag 420
ggactgataa gccatctctc ggaggggccc ctaataccca agtggagtct ggttcacacc 480
ctggggg 487

```

```

<210> 141
<211> 248
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 25
<223> n = A,T,C or G

```

```

<400> 141
ttaaagatgg ggaaatgagg cctgnaaata gaaaagattt gcctagagtc acacacactg 60
tcaggctcagg tagagtcaaa atcaggcacc ccgactcaca gactgcttca cattgccatc 120
agagattgtc ctgcaacaat attatgttta gttctactgc agaatagataa ctggatctta 180
ccccctttgc ctgatctggc caciaacttg tttttcaggc ctttccatta ggctctcttc 240
agctaatt 248

```

```

<210> 142
<211> 173
<212> DNA
<213> Homo sapiens

```

```

<400> 142
tactaagatt gtccaagcct ccctcttaaa actttctttc cttttagagg aatcattact 60
tcgtattaaa agtttctact tccttgtaga atatctacat ccaatgggcc atggcacaaa 120
atttaagtct agaaagaatc tttaaaggctc atcttatagt aaccagaggc agg 173

```

```

<210> 143
<211> 511
<212> DNA
<213> Homo sapiens

```

<220>  
 <221> misc\_feature  
 <222> 26  
 <223> n = A,T,C or G

<400> 143  
 cctcgtcaga ggggtggttc ctggtnacct gtactccacg gacctcgggtg aagcaaaagc 60  
 ttcagggcag aggggaatgag gcaacccagt ggcagccccg ctggggccccg tggctcctgc 120  
 tctcctattg gacgtagagg caggggagag acttctctat acaaatattc tcatcacaga 180  
 agggatgata cttgctgctc tgccgtaggg tttttgatgc tgagctatgc tgcacatgac 240  
 gttaacctaa agaacttgga ctgagctttt aaaaaaggac agcaaacaat tttataatcc 300  
 ttaaagtgtg atagacgggt acactagtgc agggatattg ggaggctctt tgggtgtgga 360  
 ggctgtcact tgtatttatt gtgactctaa atctttgata gtaaaacaaa tgtaaaaaga 420  
 aatgtttgcc accagatggg aatagaagtt ccaataagca ggctggaatg ggtggctata 480  
 cgttgtatca cgaggaagtt ttagactctg a 511

<210> 144  
 <211> 190  
 <212> DNA  
 <213> Homo sapiens

<400> 144  
 cattcttctg tcacatgcc aattcagttgt caatcccatt gtctatgctt accggaaccg 60  
 agacttccgc tacacttttc acaaaattat ctccaggtat cttctctgcc aagcagatgt 120  
 caagagtggg aatggtcagg ctggggtaca gcctgctctc ggtgtgggcc tatgatctag 180  
 gctctcgctt 190

<210> 145  
 <211> 169  
 <212> DNA  
 <213> Homo sapiens

<400> 145  
 gatgtgggta tctcctcaga tggccagttt gccctctcag gctcctggga tggaaacctg 60  
 cgctctggg atctcacaac gggcaccacc acgaggcgat ttgtgggcca taccaaggat 120  
 gtgctgagtg tggccttctc ctctgacaac cggcagattg tctctggat 169

<210> 146  
 <211> 511  
 <212> DNA  
 <213> Homo sapiens

<400> 146  
 atctagagaa gatttgggaa acacatgata gctatgggta aatacttaac agggcaatca 60  
 cagggaagat gactagattt cctaacatcc atgagtgaag tttatagaag tatactctct 120  
 gacttgatat aaaggaagat tttaaaaaac atgactgttc aggagtgttc aagtagggtc 180  
 agatgaccag tgattgggaa tacttcgtaa gcaggagcaa gtaagatctg agccactgtt 240  
 ctatcggtag ggtgtctgtg gtattccttg gtcaaagaag tactctaagc aacttcagtc 300  
 tcacgaatta ctatcaccct cgtgggcata catgatggtt accctaaaga ggaagtttca 360  
 gaaggcagta atattggatc ctggaatagt cagacaggag ccttcatgca gatacccttt 420  
 tcagttctcc atacacccat tcacaagtgg tcacaaaaac acccagtacc tttacttggc 480  
 tttaccact taacaatatg ctcaatatga g 511

<210> 147  
 <211> 421  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 387  
 <223> n = A,T,C or G

<400> 147  
 gaccagtga gttcttcctg gctattgtat aatccacagc cacactgtga aagcaaactct 60  
 ggccagttag caacacaggg agaattctgcc tgaactgacc aaaggtgtcc atacttcatg 120  
 tcagtgaagaa ttccacctcc atcatgttct aaagagccaa caacagattc tagggcactg 180  
 caaaatgctt cagcaattaa ttgaagttct gtttgagtac attcatcatc ttgagaatg 240  
 ctttctgggt cgttgtgagt cttgtgtctg atatatgcag ccaaagtgtt ttcagtacag 300  
 ccacctccca acaaagccca tggttccttg agtggttaact gcaggacatg cagtgcctgc 360  
 tgacacgtga gcttcagctc atcccangca gtgtcatttc tgttcgagag aagccaagct 420  
 g 421

<210> 148  
 <211> 237  
 <212> DNA  
 <213> Homo sapiens

<400> 148  
 acacaccact gttggccttc catctgggtt aagtcaactg tgagtagaaa ccgaagataa 60  
 cagtttttga ttcataatgg ccttttcata ctccaagtac ttttgagcac agagcctctt 120  
 gcttctgacc tggcacttgg aacacagata tatatatctt ttgttctgtc cctgggaaac 180  
 tgatatttgt gtaagacaac caccagatat tttctctaata aaaatcttct aaaatta 237

<210> 149  
 <211> 168  
 <212> DNA  
 <213> Homo sapiens

<400> 149  
 agagaaagtt aaagtgcatt aatgtttgaa gacaataagt ggtggtgtat cttgtttcta 60  
 ataagataaa cttttttgtc tttgctttat cttattaggg agttgtatgt cagtgtataa 120  
 aacatactgt gtggtataac aggcttaata aattctttaa aaggagag 168

<210> 150  
 <211> 68  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 22  
 <223> n = A,T,C or G

<400> 150  
 ggtggggttt ggcagagatg antttaagtg ctgtggccag aagcgggggg ggggttttgt 60  
 ggaaattt 68

<210> 151  
 <211> 421  
 <212> DNA  
 <213> Homo sapiens

<400> 151  
 aggtgacacg tattcgggat gaaagtataa tagtcattcc ttcaaccott gcatttatgg 60  
 actctggaaa tcgaagatcc acagtgagta aagatgttcg tccaaagaca aaaaatagaa 120  
 acagctcaac aaagcgagag acaaaaaaac aaaatggcac tgtggctctg cctttgaagt 180  
 ctgggctcca gcagagggct gatcttccca caggagacga gacggcctat gacactctcc 240  
 agaactgttg tcagtgccga attttacttc ccttgcccat tctaaatgag caccaggaga 300  
 agtgccagag gttagctcac caaaagaaac tccagtgggg ctggtgagat ggctcagcgg 360  
 gtaagagcac ccgactgctc ttccgaaggc ccggagtcca aatcccagca accacatggt 420  
 g 421

<210> 152  
 <211> 507  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 12, 31, 37, 58, 95, 102, 130, 151, 155, 211, 230, 244, 253,  
 274, 288, 318, 322, 343, 355, 376, 395, 446, 449, 453, 470,  
 475, 482, 484, 488, 497  
 <223> n = A,T,C or G

<400> 152  
 gaattcggca cnagctcgtg ccgccagggt nggtcctttt ttgctccgc ctgccanga 60  
 cttectacag ctatcgccag tcgtcggcca cgtcttcctt cngaggcctg ggccggcggt 120  
 ccgtgcgttn tgggcggggg gtcgcctttc nctcncccag cattcacggg ggctccggcg 180  
 gccgcggcgt atcogtgtcc tcgcgccgct ntgtgtctct gtctctctcn ggggcctacg 240  
 gctnctgtct acngcggcctt cctgaccgct tccnacgggc tgctggcngg caacgagaag 300  
 ctaaccatgc agaacctnaa cnaccgcctg gcctcctacc tgnacaaggt gcgcncctg 360  
 taggcggcca acggcnagct agaggtgaag atcncctact gggtagcaga agcagggggc 420  
 tgggccctgc ccgactacag ccactnctnc acnaccatgc agtacctgcn ggganaagat 480  
 tntngggngc caccatngag aactgca 507

<210> 153  
 <211> 513  
 <212> DNA  
 <213> Homo sapiens

<400> 153  
 gaattcggca cgaggtggct cagatgtcca ctactgggag tatggtcgaa ttgggaattt 60  
 tattgtgaaa aagcccatgg tgctgggaca tgaagcttcg ggaacagtcg aaaaagtggg 120  
 atcatcggtg aagcacctaa aaccagggtg tcgtgttgcc atcgagcctg gtgctccccg 180  
 agaaaatgat gaattctgca agatgggccc atacaatctg tcaccttcca tcttctctctg 240  
 tgccgcgccc ccgatgacg ggaacctctg ccggttctat aagcacaatg cagccttttg 300  
 ttacaagctt cctgacaatg tcacctttga ggaaggcgcc ctgatcgagc cactttctgt 360  
 ggggatccat gcctgcagga gaggcggagt taccctggga cacaaggtcc ttgtgtgtgg 420  
 agctgggcca atcgggatgg tcactttgct cgtggccaaa gcaatgggag cagctcaagt 480  
 agtggtgact gatctgtctg ctacccgatt gtc 513



<210> 154  
 <211> 507  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 26  
 <223> n = A,T,C or G

<400> 154  
 ggcacgagct cgtgccgaat tcggcncgag cagacacaat ggtaagaatg gtgcctgtcc 60  
 tgctgtctct gctgctgctt ctgggtcctg ctgtcccca ggagaaccaa gatggtcgtt 120  
 actctctgac ctatatctac actgggctgt ccaagcatgt tgaagacgtc ccgcggtttc 180  
 aggcccttgg ctactcaat gacctccagt tctttagata caacagtaaa gacaggaagt 240  
 ctcagcccat gggactctgg agacagggtg aaggaatgga ggattggaag caggacagcc 300  
 aacttcagaa ggccaggagg gacatcttta tggagaccct gaaagacatc gtggagtatt 360  
 acaacgacag taacgggtct cacgtattgc aggggaaggtt tggttgtgag atcgagaata 420  
 acagaagcag cggagcattc tggaaatatt actatgatgg aaaggactac attgaattca 480  
 acaaagaaat cccagcctgg gtccct 507

<210> 155  
 <211> 507  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 27  
 <223> n = A,T,C or G

<400> 155  
 ggcacgagga gacctaaggg ctgagtnctg ggaacaggag aaagctctgt tggccctcca 60  
 gcagcagtgt gctgagcagg cacaggagca tgagggtggag accaggggccc tgcaggacag 120  
 ctggctgcag gcccaggcag tgctcaagga acgggaccag gagctggaag ctctgcgggc 180  
 agaaagtcag tcctcccggc atcaggagga ggctgcccg gcccgggctg aggctctgca 240  
 ggaggccctt ggcaaggctc atgctgccct gcaggggaaa gagcagcatc tcctcgagca 300  
 ggcagaattg agccgcagtc tggaggccag cactgcaacc ctgcaagcct ccctggatgc 360  
 ctgccaggca cacagtcggc agctggagga ggctctgagg atacaagaag gtgagatcca 420  
 ggaccaggat ctccgatacc aggaggatgt gcagcagctg cagcaggcac ttgcccagag 480  
 ggatgaagag ctgagacatc agcagga 507

<210> 156  
 <211> 509  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 26  
 <223> n = A,T,C or G

<400> 156

```

ggcacgagga cagagagaac cctgtngaaa gagcgttacc aggaggtcct ggacaaacag 60
aggcaagtgg agaatcagct ccaagtgcaa ttaaagcagc ttcagcaaag gagagaagag 120
gaaatgaaga atcaccagga gatattaaag gctattcagg atgtgacaat aaagcgggaa 180
gaaacaaaga agaagataga gaaagagaag aaggagtttt tgcagaagga gcaggatctg 240
aaagctgaaa ttgagaagct ttgtgagaag ggcagaagag aggtgtggga aatggaactg 300
gatagactca agaatcagga tggcgaaata aataggaaca ttatggaaga gactgaacgg 360
gcctggaagg cagagatctt atcactagag agccggaaag agttactggt actgaaacta 420
gaagaagcag aaaaagagggc agaattgcac cttacttacc tcaagtcaac tcccccaaca 480
ctggagacag ttcgttccaa acaggagtg 509

```

```

<210> 157
<211> 507
<212> DNA
<213> Homo sapiens

```

```

<400> 157
ggcacgaggg cagccctcct accggcgcac gtggtgccgc cgctgctgcc tcccgtctgc 60
cctgaaccca gtgctgcag ccatggctcc cggccagctc gccttattta gtgtctctga 120
caaaaccggc cttgtggaat ttgcaagaaa cctgaccgct cttggtttga atctggtctg 180
ttccggaggg actgcaaaag ctctcagggg tgcgtggtctg gcagtcagag atgtctctga 240
gttgacggga tttcctgaaa tgttgggggg acgtgtgaaa actttgcac ctgcagtcca 300
tgctggaatc ctgctcgtta atattccaga agataatgct gacatggcca gacttgattt 360
caatcttata agagttgttg cctgcaatct ctatcccttt gtaaagacag tggcttctcc 420
aggtgtaagt gttgaggagg ctgtggagca aattgacatt ggtggagtaa ccttactgag 480
agctgcagcc aaaaaccacg ctcgagt 507

```

```

<210> 158
<211> 507
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 27, 428, 448, 449, 456, 462, 490, 492, 497, 498, 502, 503
<223> n = A,T,C or G

```

```

<400> 158
ggcacgagtc gagctgtgcc tattcngtc aatccaagag tgagtaatgt gaagtctgtc 60
tacaaaaccc acattgatgt cattcattat cggaaaacgg atgcaaaacg tctgcatggc 120
cttgatgaag aagcagaaca gaaacttttt tcagagaaac gtgtggaatt gcttaaggaa 180
ctttccagga aaccagacat ttatgagagg cttgcttcag ccttggctcc aagcatttat 240
gaacatgaag atataaagaa ggggaattttg cttcagctct ttggcgggac aaggaaggat 300
tttagtcaca ctggaagggg caaatttcgg gctgagatca acatcttgct gtgtggcgac 360
cctggtacca gcaagtccca gctgctgcag tacgtgtaca acctcgtccc caggggccag 420
tacacgtntg ggaagggctc cagtgcannn ggctnactg cntacgtaat gaaagaccct 480
gagacaagggn anctggnnct gnnacag 507

```

```

<210> 159
<211> 508
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature

```

<222> 6, 8, 25, 26

<223> n = A,T,C or G

<400> 159

```
ggcacnanaa accaggatta tggtnnggat ccaaagattg ctaatgcaat aatgaaggca 60
gcagatgagg tagctgaagg taaattaaat gatcattttc ctctcggtgt atggcagact 120
ggatcaggaa ctcagacaaa tatgaatgta aatgaagtca ttagcaatag agcaattgaa 180
atgttaggag gtgaacttgg cagcaagata cctgtgcatc ccaacgatca tgttaataaa 240
agccagagct caaatgatac ttttccaca gcaatgcaca ttgctgctgc aatagaagtt 300
catgaagtac tgttaccagg actacagaag ttacatgatg ctcttgatgc aaaatccaaa 360
gagtttgcac agatcatcaa gattggacgt actcatactc aggatgctgt tccacttact 420
cttgggcagg aatttagtgg ttatgttcaa caagtaaaat atgcaatgac aagaataaaa 480
gctgccatgc caagaatcta tgagctcg 508
```

<210> 160

<211> 508

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 27

<223> n = A,T,C or G

<400> 160

```
ggcacgagct tggagcaaag tcactctnaag gaattagagg acacacttca ggtagggcac 60
atacaagagt ttgagaaggt tatgacagac cacagagttt ctttggagga attaaaaaag 120
gaaaaccaac aaataattaa tcaaatacaa gaatctcatg ctgaaattat ccaggaaaaa 180
gaaaaacagt tacaggaatt aaaactcaag gtttctgatt tgtcagacac gagatgcaag 240
ttagagggtt aacttgcgtt gaaggaagca gaaactgatg aaataaaaat ttgctggaa 300
gaaagcagag cccagcagaa ggagaccttg aaatctcttc ttgaacaaga gacagaaaat 360
ttgagaacag aaattagtaa actcaaccaa aagattcagg ataataatga aaattatcag 420
gtgggcttag cagagctaag aactttaatg acaattgaaa aagatcagtg tatttccgag 480
ttaattagta gacatgaaga agaatcta 508
```

<210> 161

<211> 507

<212> DNA

<213> Homo sapiens

<400> 161

```
ggcacgagcg ctaccggcgc ctctctctgc gccactgagc cggagccggc ctgagcagcg 60
ctctcggttg cagtaccacac tggaaggact taggcgctcg cgtggacacc gcaagcccct 120
cagtagcctc ggcccaagag gctgtctttc cactcgctag ccccgccggg ggtccgtgtc 180
ctgtctcggt ggccggaccc gggcccagac ccgagcagta gccggcgcca tgtcgggtgt 240
gggcatagac ctgggcttcc agagctgcta cgtcgctgtg gcccgcgccg gcggcatoga 300
gactatcgct aatgagtata gcgaccgctg cagccggctg tgcatctctt ttggtcctaa 360
gaatcggttca attggagcag cagctaaaag ccaggtaatt tctaatagcaa agaacacagt 420
ccaaggattt aaaagattcc atggccgagc attctctgat ccatttgtgg aggcagaaaa 480
atctaaccct gcataatgata ttgtgca 507
```

<210> 162

<211> 507

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 27

<223> n = A,T,C or G

<400> 162

```
ggcacgagca gctgtgcacc gacatgntct cagtgtcctg agtaagacca aagaagctgg 60
caagatcctc tctaataatc ccagcaaggg actggccctg ggaattgcca aagcctggga 120
gctctacggc tcacccaatg ctctggtgct actgattgct caagagaagg aaagaaacat 180
at ttgaccag cgtgccatag agaatgagct actggccagg aacatccatg tgatccgacg 240
aacatttgaa gatattctctg aaaagggggtc tctggaccaa gaccgaaggc tgtttgtgga 300
tggccaggaa attgctgtgg tttacttccg ggatggctac atgcctcgtc agtacagtct 360
acagaattgg gaagcacgtc tactgctgga gaggtcacat gctgccaaagt gcccgacat 420
tgccacccag ctggctggga ctaagaaggt gcagcaggag ctaagcaggc cgggcatgct 480
ggagatgttg ctccctggcc agcctga 507
```

<210> 163

<211> 460

<212> DNA

<213> Homo sapiens

<400> 163

```
ggcacgagaa ataactttat ttcattgtgg gtcgcggttc ttgtttgtgg atcgtctgtga 60
tcgtcacttg acaatgcaga tcttcgtgaa gactctgact ggtaagacca tcaccctcga 120
ggttgagccc agtgacacca tcgagaatgt caaggcaaag atccaagata aggaaggcat 180
ccctcctgac cagcagaggc tgatctttgc tggaaaacag ctggaagatg ggcgcaccct 240
gtctgactac aacatccaga aagagtccac cctgcacctg gtgctccgtc tcagagggtg 300
gatgcaaate ttcgtgaaga cactcactgg caagaccatc acccttgagg tggagcccag 360
tgacaccatc gagaacgtca aagcaaagat ccaggacaag gaaggcattc ctctgacca 420
gcagagggtg atctttgccc gaaagcagct ggaagatggg 460
```

<210> 164

<211> 462

<212> DNA

<213> Homo sapiens

<400> 164

```
ggcacgagcc ggatctcatt gccacgcgcc cccgacgacc gcccgacgtg cattccccgat 60
tccttttggg tccaagtcca atatggcaac tctaaaggat cagctgattt ataactttct 120
aaaggaagaa cagaccccc agaatagat tacagttgtt ggggttgggt ctggtggcat 180
ggcctgtgcc atcagtatct taatgaagga cttggcagat gaacttgctc ttgttgatgt 240
catcgaagac aaattgaagg gagagatgat ggatctccaa catggcagcc ttttccttag 300
aacaccaaag attgtctctg gcaaagacta taatgtaact gcaaactcca agctgggtcat 360
tatcacggct ggggcacgtc agcaagagg agaaagccgt cttaatttgg tccagcgtaa 420
cgtgaacatc tttaaattca tcattcctaa tgttgtaaaa ta 462
```

<210> 165

<211> 462

<212> DNA

<213> Homo sapiens

<400> 165





<220>  
 <221> misc\_feature  
 <222> 27  
 <223> n = A,T,C or G

<400> 170  
 ggcacgaggg ggatttttag gtggtcnggt gtggtatcag gaataatgtg ggaggccaga 60  
 ttgaagtcca ggccaggaac aatggtaatt gtgggactta agaaagtgtg agtacagctg 120  
 aatgagccgg ggagcagaaa gtatatgcgt caggatatgag gaagaaaata gatttttgaa 180  
 gttatgagaa atgtagagag tgagttgagc atagtttgtg attttgaggg cctctaacag 240  
 tattaagca gcggcagcgg ctgcacacag acatgatggc taggctaaaa caggaaggtc 300  
 aagttgtttg gacagaaagg ctacaggggtg cagtcctggc tcttggtgtaa gaattctgac 360  
 cacactaacc atgcctagga aggaaaggag ttgttctttt gtaagggtt gaggtttggg 420  
 agattaatcg gacacgatca gcaggagag cacctgtgtt tttatgagaa ttatgctgag 480  
 ataggtaaca gatgaggatg aaatttgg 508

<210> 171  
 <211> 507  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 26  
 <223> n = A,T,C or G

<400> 171  
 ggcacgagac cagccactag cgcagnctcg agcgaatggc tatgtccccg caccgggcta 60  
 ccagcccacc tacaaccgga cgctgcctta ctaccagccc atcccgggag ggctcaacgt 120  
 gggaaatgtct gtttacatcc aaggagtggc cagcagacac atgaagcggg tcttcgtgaa 180  
 ctttgtgggt gggcaggatc cgggctcaga cgctgccttc cacttcaatc cgcggtttga 240  
 cggctgggac aaggtggtct tcaacacggt gcaggggcgg aagtggggca gcgaggagag 300  
 gaagaggagc atgcccttca aaaagggtgc cgcctttgag ctggtcttca tagtcctggc 360  
 tgagcactac aaggtggtgg taaatggaaa tcccttctat gactacgggc accggttcc 420  
 cctacagatg gtcacccacc tgcaagtggg tggggatctg caacttcaat caatcaactt 480  
 catcggaggc cagcccctcc ggcccca 507

<210> 172  
 <211> 409  
 <212> DNA  
 <213> Homo sapiens

<400> 172  
 ggcacgagct ggagtgtctg ctgccacccc ctgctcctct gcagaaatgt ctgtcaccta 60  
 cgatgactct gtgggagtgg aagtgtccag cgacagcttc tgggaggttg ggaactacaa 120  
 acggactgtg aagcggattg acgatggcca ccgcctgtgt ggtgacctca tgaactgtct 180  
 gcatgagcgg gcacgcacag agaaggcgta tgcacagcag ctactgagt gggcccagacg 240  
 ctggaggcag ctggtagaga agggaccaca gtatgggacc gtggagaagg cctggatagc 300  
 tgtcatgtct gaagcagaga gggtagtgta actgcacctg gaagtgaagg catcactgat 360  
 gaatgaagac tttgagaaga tcaagaactg gcagaaggaa gcctttcac 409

<210> 173  
 <211> 409  
 <212> DNA

<213> Homo sapiens

<400> 173

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ggcacgaggg cagctagagg aagagtccaa ggccaagaac gcaactggccc acgccctgca 60
gtcagctcgc catgactgtg acctgctgcg ggaacagtat gaagaggagc aggaagccaa 120
ggctgagctg cagagggcca tgtccaaggc caacagcgag gtagcccagt ggaggacgaa 180
atatgagacg gatgccatcc agcgcacaga ggagctggaa gaggccaaga agaagctggc 240
tcagcgtctg caggatgctg aggaacatgt agaagctgtg aattccaaat gcgcttctct 300
tgaaaagacg aagcagcgac ttcagaatga agtggaggac ctcatgattg acgtggagag 360
gtctaattgct gcctgcgctg cgcttgataa gaagcagagg aactttgac 409
```

<210> 174

<211> 407

<212> DNA

<213> Homo sapiens

<400> 174

```
ggcacgagcc ggggcggggc gcggcgctcc ggctcgaggc attcgagct gcgggagccg 60
ggctggcagg agcaggatgg cggcggcggc ggctgcaggc gaggcgcgcc ggggtgctgg 120
gtacggcggc aggggcgctc tgggttctcg atgcgtgcag gcttttcggg cccgcaactg 180
gtgggttgcc agcgttgatg tgggtggagaa tgaagaggcc agcgtagca tcattgttaa 240
aatgacagac tcgttctactg agcaggctga ccaggtgact gctgaggttg gaaagctctt 300
gggtgaagag aagggtgatg caattctttg cgttgctgga ggatgggccg ggggcaatgc 360
caaatccaag tctctcttta agaactgtga cctgatgtgg aagcaga 407
```

<210> 175

<211> 407

<212> DNA

<213> Homo sapiens

<400> 175

```
ggcacgagct tgcccgtcgg tcgctagctc gctcgggtgc cgtcgtcccc ctccatggcg 60
ctcttcgtgc ggctgctggc tctcgccctg gctctggccc tgggccccgc cgcgacctg 120
gcgggtcccc ccaagtgcgc ctaccagctg gtgctgcagc acagcaggct ccggggccgc 180
cagcacggcc ccaacgtgtg tgctgtgcag aaggttattg gcactaatag gaagtacttc 240
accaactgca agcagtggta ccaaaggaaa atctgtggca aatcaacagt catcagctac 300
gagtgtgtc ctggatatga aaaggtccct ggggagaagg gctgtccagc agccctacca 360
ctctcaaacc ttacagagac cctgggagtc gttggatcca ccaccac 407
```

<210> 176

<211> 409

<212> DNA

<213> Homo sapiens

<400> 176

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ggcacgagtg gtgccccaaac gggaccatgc cctcctggag gagcagagca agcagcagtc 60
caacgagcac ctgcgcccgc agttcgccag ccaggccaat gttgtggggc cctggatcca 120
gaccaagatg gaggagatcg ggcgcatctc cattgagatg aacgggaccc tggaggacca 180
gctgagccac ctgaagcagt atgaacgcag catcgtggac tacaagccca acctggacct 240
gctggagcag cagcaccagc tcatccagga ggccctcatc ttcgacaaca agcacacca 300
ctataccatg gagcacatcc gcgtgggctg ggagcagctg ctaccacca ttgccgcgac 360
catcaacgag gtggagaacc agatcctcac ccgcgacgcc aagggcatc 409
```

<210> 177



<211> 408  
 <212> DNA  
 <213> Homo sapiens

<400> 177  
 ggcacgaggt ccaggtaact gcaaaaacaa tggctcagca tgaagaactg atgaagaaaa 60  
 ctgaaacaat gaatgtagtt atggagacca ataaaatgct aagagaagag aaggagcagg 120  
 tttcaaaaat ggcacacagtc cgtcagcatt tgggaagaaac aacacagaaa gcagaatcac 180  
 agttgtttgga gtgtaaagca tcttgggagg aaagagagag aatgttaaag gatgaagttt 240  
 ccaaattgtgt atgtcgctgt gaagatcttg agaaacaaaa cagattactt catgatcaga 300  
 tcgaaaaatt aagtgacaag gtcgttgccct ctgtgaagga aggtgtacaa ggtccactga 360  
 atgtatctct cagtgaagaa ggaaaatctc aagaacaaat tttggaaa 408

<210> 178  
 <211> 92  
 <212> DNA  
 <213> Homo sapiens

<400> 178  
 ggcacgagaa gaaattaaga gctaaagaca aggagaatga aaatatgggtt gcaaagctga 60  
 acaaaaaagt taaagagcta gaagaggaga tg 92

<210> 179  
 <211> 411  
 <212> DNA  
 <213> Homo sapiens

<400> 179  
 ggcacgagga gacacgccac ctataaccaca gttctcagaa tgaattagct aagttggaat 60  
 cagaacttaa gagtctcaaa gaccagttga ctgatttaag taactcttta gaaaaatgta 120  
 aggaacaaaa aggaaacttg gaagggatca taaggcagca agaggctgat attcaaaatt 180  
 ctaagttcag ttatgaacaa ctggagactg atcttcaggc ctccagagaa ctgaccagta 240  
 ggctgcatga agaaataaat atgaaagagc aaaagattat aagcctgctt tctggcaagg 300  
 aagaggcaat ccaagtagct attgctgaac tgcgtcagca acatgataaa gaaattaaag 360  
 agctggaaaa cctgctgtcc caggaggaag aggagaatat tgttttagaa g 411

<210> 180  
 <211> 411  
 <212> DNA  
 <213> Homo sapiens

<400> 180  
 ggcacgaggt tgttcggagc gggcgagcgg agttagcagg gctttactgc agagcgcgcc 60  
 gggcactcca gcgaccgtgg ggatcagcgt aggtgagctg tggccttttg cgagggtgctg 120  
 cagccatagc tacgtgcgtt cgctacgagg attgagcgtc tccacccatc ttctgtgctt 180  
 caccatctac ataatgaatc ccagtatgaa gcagaaacaa gaagaaatca aagagaatat 240  
 aaagactagt tctgtcccaa gaagaactct gaagatgatt cagccttctg catctggatc 300  
 tcttgttgga agagaaaatg agctgtccgc aggcttgctc aaaaggaaac atcggaatga 360  
 ccacttaaca tctacaactt ccagccctgg ggttattgtc ccagaatcta g 411

<210> 181  
 <211> 411  
 <212> DNA  
 <213> Homo sapiens

<400> 181  
 ggcacgagggc gggacagggc gaagcggcct gcgcccacgg agcgcgcgac actgcccgga 60  
 agggaccgcc acccttgccc cctcagctgc ccactcgtga tttccagcgg cctccgcgcg 120  
 cgcacgatgc cctcggccac cagccacagc gggagcggca gcaagtcgtc cggaccgcca 180  
 ccgccgtcgg gttcctccgg gagtgaggcg gccgcgggag ccggggccgc cgcgcgggct 240  
 tctcagcacc ccgcaaccgg caccggcgct gtccagaccg aggccatgaa gcagattctc 300  
 ggggtgatcg acaagaaact tcggaacctg gagaagaaaa agggtaagct tgatgattac 360  
 caggaacgaa tgaacaaagg ggaaaggctt aatcaagatc agctggatgc c 411

<210> 182  
 <211> 411  
 <212> DNA  
 <213> Homo sapiens

<400> 182  
 ggcacgagcc gacatggagc tgttcctcgc gggccgcggc gtgctgggtca ccggggcagg 60  
 caaagggtata gggcgcgga cgggtccaggc gctgcacgcg acgggcgcgc ggggtgggtggc 120  
 tgtgagccgg actcaggcgg atcttgacag ccttgctcgc gagtgcccg ggatagaacc 180  
 cgtgtgcgtg gacctgggtg actgggaggc caccgagcgg gcgctgggca gcgtgggccc 240  
 cgtggacctg ctgggtgaaca acgccgctgt cgccctgctg cagcccttcc tggagggtcac 300  
 caaggaggcc tttgacagat cctttgaggt gaacctgcgt gcggtcatcc aggtgtcgca 360  
 gattgtggcc aggggcttaa tagcccggg agtcccaggg gccatcgtga a 411

<210> 183  
 <211> 409  
 <212> DNA  
 <213> Homo sapiens

<400> 183  
 ggcacgagcc tacactctgg ccagagatac cacagtcaaa cctggagcca aaaaggacac 60  
 aaaggactct cgacccaaac tgccccagac cctctccaga ggttgggtg accaactcat 120  
 ctggactcag acatatgaag aagctctata taaatccaag acaagcaaca aacccttgat 180  
 gattattcat cacttggtg agtgcacaca cagtcaagct ttaaagaaag tgtttgctga 240  
 aaataaagaa atccagaaat tggcagagca gtttgctctc ctcaatctgg tttatgaaac 300  
 aactgacaaa cacctttctc ctgatggcca gtatgtcccc aggattatgt ttgttgaccc 360  
 atctctgaca gttagagccg atatcactgg aagatattca aatcgtctc 409

<210> 184  
 <211> 410  
 <212> DNA  
 <213> Homo sapiens

<400> 184  
 ggcacgaggt cattccagca ccaacaggat ccaagccaga ttgattgggc tgcattggcc 60  
 caagcttgga ttgccc aaag agaagcttca ggacagcaaa gcatggtaga acaaccacca 120  
 ggaatgatgc caaatggaca agatatgtct acaatggaat ctggtccaaa caatcatggg 180  
 aatttccaag gggattcaaa cttcaacaga atgtggcaac cagaatggg aatgcatcag 240  
 caacccccac acccccctcc agatcagcca tggatgccac caacaccagg cccaatggac 300  
 attgttctc cttctgaaga cagcaacagt caggacagtg gggaatttgc ccctgacaac 360  
 aggcatatat ttaaccagaa caatcacaac tttggtggac caccgataa 410

<210> 185  
 <211> 411

<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 366  
<223> n = A,T,C or G

<400> 185  
ggcacgagca cagatgtagt tttctctgcg cgtgtgcggt ttccctcctc ccccgccctc 60  
aggtgccag gccaccatgg cgtattaggg gcagcagtc ctgcggcagc attggccttt 120  
gcagcggcgg cagcagcacc aggtctctgca gcggcaaccc ccagcggctt aagccatggc 180  
gcttctcacg gcattcagca gcagcgttgc tgtaaccgac aaagacacct tcgaattaag 240  
cacattcctc gattccagca aagcaccgca acatgaccga aatgagcttc ctgagcagcg 300  
aggtgttggg gggggacttg atgtccccct tcgaccgctc gggtttgggg gctgaagaaa 360  
gcctangtct cttagatgat tacctggagg tggccaagca cttcaaacct c 411

<210> 186  
<211> 410  
<212> DNA  
<213> Homo sapiens

<400> 186  
ggcacgagct tctagtcccg ccatggccgc tctcaccgga gacccccagt tccagaagct 60  
gcagcaatgg taccgcgagc accgctccga gctgaacctg cgccgcctct tcgatgccaa 120  
caaggaccgc ttcaaccact tcagcttgac cctcaacacc aacctggggc atatcctggg 180  
ggattactcc aagaacctgg tgacggagga cgtgatgcgg atgctggtgg acttggccaa 240  
gtccaggggc gtggaggccg cccgggagcg gatgttcaat ggtgagaaga tcaactacac 300  
cgagggtcga gccgtgctgc acgtggctct gcggaaccgg tcaaacacac ccatacctggg 360  
agacggcaag gatgtgatgc cagaggtcaa caaggttctg gacaagatga 410

<210> 187  
<211> 506  
<212> DNA  
<213> Homo sapiens

<400> 187  
ctttcgtggc tcaactccctt tcctctgctg ccgctcggtc acgcttgtgc ccgaaggagg 60  
aaacagtgc agacctggag actgcagttc tctatccttc acacagctct ttcaccatgc 120  
ctggatcact tcctttgaat gcagaagctt gctggccaaa agatgtggga attggtgccc 180  
ttgagatcta ttttccttct caatatgttg atcaagcaga gttggaaaaa tatgatggtg 240  
tagatgctgg aaagtatacc attggcttgg gccaggccaa gatgggcttc tgcacagata 300  
gagaagatat taactctctt tgcattgact tgggttcagaa tcttatggag agaaataacc 360  
tttcctatga ttgcattggg cggctggaag ttggaacaga gacaatcatc gacaaatcaa 420  
agtctgtgaa gactaatttg atgcagctgt ttgaagagtc tgggaatata gatatagaag 480  
gaatcgacac aactaatgca tgctat 506

<210> 188  
<211> 506  
<212> DNA  
<213> Homo sapiens

<400> 188  
gccacagagg cggcggagag atggccttca gcggttccca ggctccctac ctgagtcacg 60

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ctgtccccctt ttctgggact attcaaggag gtctccagga cggacttcag atcactgtca 120
atgggaccgt tctcagctcc agtggaaacca ggtttgctgt gaactttcag actggcttca 180
gtggaaatga cattgccttc cacttcaacc ctcggtttga agatggaggg tacgtggtgt 240
gcaacacgag gcagaacgga agctgggggc ccgaggagag gaagacacac atgcctttcc 300
agaaggggat gccctttgac ctctgcttcc tgggtgcagag ctcagatttc aaggtgatgg 360
tgaacgggat cctcttcgtg cagtacttcc accgcgtgcc cttccaccgt gtggacacca 420
tctccgtcaa tggtctctgt cagctgtcct acatcagctt ccagcctccc ggcgtgtggc 480
ctgccaaccc ggctcccatt acccag                                     506

```

```

<210> 189
<211> 399
<212> DNA
<213> Homo sapiens

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<400> 189
ctggacagga gaagagcctg gctgctgaag gcagggctga cagcaccacg ggcagcattg 60
ctggagcccc agaggatgaa agatcgcaga gcacagcccc ccaggcacca gagtgccttcg 120
accctgccgg accggtctggg ctctgtaggc cgacatctgg cctttcccag ggcccaggaa 180
aggaaacctt ggaaagtgtc ctaatcgctc tagactctga aaaacccaag aaacttcgct 240
tccacccaaa gcagctgtac ttctctgcca ggcaggggtga gctgcagaag gtgcttctca 300
tgctgggtga tgggaattgat cccaacttca aaatggagca ccaaagtaag cgttccccat 360
tacaatgctgc tgcggaggct ggccacgtgg acatctgcc                                     399

```

```

<210> 190
<211> 401
<212> DNA
<213> Homo sapiens

```

```

<400> 190
cggcgacggt ggtgggtgact gagcggagcc cggtgacagg atgttggtgt tggattagg 60
agatctgcac atccacacc ggtgcaacag tttgccagct aaattcaaaa aactcctgg 120
gccaggaaaa attcagcaca ttctctgcac aggaaacctt tgcaccaaag agagttatga 180
ctatctcaag actctggctg gtgatgttca tattgtgaga ggagacttcg atgagaatct 240
gaattatcca gaacagaaag ttgtgactgt tggacagttc aaaattgggtc tgatccatgg 300
acatcaagtt attccatggg gagatatggc cagcttagcc ctgttgacaga ggcaatttga 360
tgtggacatt cttatctcgg gacacacaca caaatttgaa g                                     401

```

```

<210> 191
<211> 406
<212> DNA
<213> Homo sapiens

```

```

<400> 191
tggcagccta agccgtggga gggttccagt cgagaatggg aagatgaaag acttcagatg 60
gaacagaaat aaatgccttt ttgacaaaac gcagcagtg cgtgcctctag cttgcaagag 120
cgttactccc cttcatagct ttaaaagggt ttcgcactgc gtgcagttag agtagctaaa 180
tcttgtgtga cgctccacaa acacttgtaa gaattttgca gagaaagata accgttgcca 240
cccaatgccc ccacaggca ttctactccc cagtacctct tagggtggga gaaatgggtga 300
agagttgttc ctacaacttg ctaacctagt ggacagggtg gtagattagc atcatccgga 360
tagatgtgaa gaggacggct gtttgataa taattaagga taaaaat                                     406

```

```

<210> 192
<211> 316
<212> DNA

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<213> Homo sapiens

<400> 192

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cccgggggagg ccttggtcat aaaactttaa attttactag tgttacttaa tgtatattct 60
aaaaagagaa tgcagtaact aatgccctaa atgtttgatc tctgtttgtc attacttttt 120
caaaattatt tttttctgta aagtataata tataaaactt cttgcttaaa ttgaatttct 180
atattagtgg ttaattgcag ttatttaaag ggatcattat cagtaatttc atagcaactg 240
ttctagtgtt ttgtgttttt aaaacagaat taggaatttg agatatctga ttatattttt 300
catatgaatc acagac                                     316

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<210> 193

<211> 146

<212> DNA

<213> Homo sapiens

<400> 193

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gaaacatgga ctgcccctta aattttgact gtcctaaaaa cctattttctg atttataata 60
tgctgcctga taaagtgaca ctagatgtac cagctgagtg tttaatcttc ccatcacaga 120
tcagatttga gcattaacag gtattt                                     146

```

<210> 194

<211> 405

<212> DNA

<213> Homo sapiens

<400> 194

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cggatgtgct cactgacatt ctactccaag tcggagatgc agatccactc caagtcacac 60
accgagacca agccccacaa gtgccacat tgctccaaga ccttcgcaa cagctcctac 120
ctggcccagc acatccgtat acactcaggg gctaagccct acagttgtaa cttctgtgag 180
aaatccttcc gccagctctc ccaccttcag cagcacaccc gaatccacac tggatgata 240
ccatacaaat gtgcacaccc aggtgtgtgag aaagccttca cacaactctc caatctgcag 300
tcccacagac ggcaacacaa caaagataaa cccttcaagt gccacaactg tcatcgggag 360
tacacggatg cagcctcact agaggtgcac ctgtctacgc acaca                                     405

```

<210> 195

<211> 421

<212> DNA

<213> Homo sapiens

<400> 195

```

agaattcggc acgagctact ccttgcgcg c tggcactccg cagcctttaa gggtcgcgcg 60
ggggccaggc aagagttagc catgaagagc ctcaagtccc gcctgaggag gcaggacgtg 120
cccggccccg cgtcgtctgg cgccgcgcgc gccagcgcg atgcagcaga ttggaataaa 180
tatgatgacc gattgatgaa agcagcagaa aggggggatg tagaaaaagt gacgtcaatc 240
cttgctaaaa aggggggtcaa tccaggcaaa ctagatgtgg aaggcagatc tgtcttccat 300
gttgtgacct caaaggggaa tcttgagtgt ttgaatgcca tccttatata tggagttgat 360
attacaacca gtgacactgc agggagaaat gctcttcacc tggctgctaa gtatggacat 420
g                                     421

```

<210> 196

<211> 476

<212> DNA

<213> Homo sapiens

&lt;400&gt; 196

```

agaattgatac tatagatttta atgcaatgcc tactaaaatc ccagtagcat tttttacagg 60
catagacaat agacatagcc aaaacttatt ctaaaatata tatgaagatg cacaggccct 120
agttatacaa tcttgacaaa gaagaataaa gtgggaagaa tctatttgat ttttaaggctt 180
accatgtaac tacagtcatac aagagagtgt ggtatcggca gacggtcaga catacagatc 240
aatggaatgt aacagaggac ccagaaatag gccacacag atatgctcaa tggatatttg 300
acaagcgtgc aaaacaattc aatggaagaa taagctttca aaaaaatggc gttggagcaa 360
ccggacatcc ataggaaaaa atgaacccat acctaaacca taaaccttat ataaaaataa 420
acacaaaaatg aatcataggc tttaatgtaa gctataaaac ttttagagaa aaacac 476

```

&lt;210&gt; 197

&lt;211&gt; 503

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 197

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tagccctcgg tgaagcccca gaccacagct atgagtcctt tcgtgtgacg tctgcgcaga 60
aacatgttct gcatgtccag ctcaaccggc ccaacaagag gaatgccatg aacaaggctt 120
tctggagaga gatggtagag tgcttcaaca agatttcgag agacgctgac tgtcggggcg 180
tggtgatctc tgggtgcagga aaaatgttca ctgcaggtat tgacctgatg gacatggctt 240
cggacatcct gcagcccaaa ggagatgatg tggcccgat cagctggtac ctccgtgaca 300
tcatcactcg ataccaggag accttcaacg tcatcgagag gtgccccaaag cccgtgattg 360
ctgccgtcca tgggggctgc attggcggag gtgtggacct tgtcaccgcc tgtgacatcc 420
ggtactgtgc ccaggatgct ttcttcagg tgaaggaggt ggacgtgggt ttggctgccc 480
atgtaggaac actgcagcgc ctg 503

```

&lt;210&gt; 198

&lt;211&gt; 168

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 198

```

Phe Val Ala His Ser Leu Ser Ser Ala Ala Ala Arg Ser Arg Leu Cys
 1          5          10          15
Pro Lys Glu Glu Thr Val Thr Asp Leu Glu Thr Ala Val Leu Tyr Pro
          20          25          30
Ser His Ser Ser Phe Thr Met Pro Gly Ser Leu Pro Leu Asn Ala Glu
          35          40          45
Ala Cys Trp Pro Lys Asp Val Gly Ile Val Ala Leu Glu Ile Tyr Phe
          50          55          60
Pro Ser Gln Tyr Val Asp Gln Ala Glu Leu Glu Lys Tyr Asp Gly Val
65          70          75          80
Asp Ala Gly Lys Tyr Thr Ile Gly Leu Gly Gln Ala Lys Met Gly Phe
          85          90          95
Cys Thr Asp Arg Glu Asp Ile Asn Ser Leu Cys Met Thr Val Val Gln
          100          105          110
Asn Leu Met Glu Arg Asn Asn Leu Ser Tyr Asp Cys Ile Gly Arg Leu
          115          120          125
Glu Val Gly Thr Glu Thr Ile Ile Asp Lys Ser Lys Ser Val Lys Thr
          130          135          140
Asn Leu Met Gln Leu Phe Glu Glu Ser Gly Asn Thr Asp Ile Glu Gly
145          150          155          160
Ile Asp Thr Thr Asn Ala Cys Tyr
          165

```

<210> 199  
 <211> 168  
 <212> PRT  
 <213> Homo sapiens

<400> 199

His	Arg	Gly	Gly	Gly	Glu	Met	Ala	Phe	Ser	Gly	Ser	Gln	Ala	Pro	Tyr
1			5						10					15	
Leu	Ser	Pro	Ala	Val	Pro	Phe	Ser	Gly	Thr	Ile	Gln	Gly	Gly	Leu	Gln
		20						25					30		
Asp	Gly	Leu	Gln	Ile	Thr	Val	Asn	Gly	Thr	Val	Leu	Ser	Ser	Ser	Gly
	35						40					45			
Thr	Arg	Phe	Ala	Val	Asn	Phe	Gln	Thr	Gly	Phe	Ser	Gly	Asn	Asp	Ile
	50					55					60				
Ala	Phe	His	Phe	Asn	Pro	Arg	Phe	Glu	Asp	Gly	Gly	Tyr	Val	Val	Cys
65					70				75						80
Asn	Thr	Arg	Gln	Asn	Gly	Ser	Trp	Gly	Pro	Glu	Glu	Arg	Lys	Thr	His
			85					90					95		
Met	Pro	Phe	Gln	Lys	Gly	Met	Pro	Phe	Asp	Leu	Cys	Phe	Leu	Val	Gln
			100					105					110		
Ser	Ser	Asp	Phe	Lys	Val	Met	Val	Asn	Gly	Ile	Leu	Phe	Val	Gln	Tyr
		115				120						125			
Phe	His	Arg	Val	Pro	Phe	His	Arg	Val	Asp	Thr	Ile	Ser	Val	Asn	Gly
	130					135					140				
Ser	Val	Gln	Leu	Ser	Tyr	Ile	Ser	Phe	Gln	Pro	Pro	Gly	Val	Trp	Pro
145					150				155						160
Ala	Asn	Pro	Ala	Pro	Ile	Thr	Gln								
				165											

<210> 200  
 <211> 132  
 <212> PRT  
 <213> Homo sapiens

<400> 200

Gly	Gln	Glu	Lys	Ser	Leu	Ala	Ala	Glu	Gly	Arg	Ala	Asp	Thr	Thr	Thr
1			5						10					15	
Gly	Ser	Ile	Ala	Gly	Ala	Pro	Glu	Asp	Glu	Arg	Ser	Gln	Ser	Thr	Ala
		20						25				30			
Pro	Gln	Ala	Pro	Glu	Cys	Phe	Asp	Pro	Ala	Gly	Pro	Ala	Gly	Leu	Val
	35						40					45			
Arg	Pro	Thr	Ser	Gly	Leu	Ser	Gln	Gly	Pro	Gly	Lys	Glu	Thr	Leu	Glu
	50					55					60				
Ser	Ala	Leu	Ile	Ala	Leu	Asp	Ser	Glu	Lys	Pro	Lys	Lys	Leu	Arg	Phe
65					70				75						80
His	Pro	Lys	Gln	Leu	Tyr	Phe	Ser	Ala	Arg	Gln	Gly	Glu	Leu	Gln	Lys
			85					90					95		
Val	Leu	Leu	Met	Leu	Val	Asp	Gly	Ile	Asp	Pro	Asn	Phe	Lys	Met	Glu
			100				105					110			
His	Gln	Ser	Lys	Arg	Ser	Pro	Leu	His	Ala	Ala	Ala	Glu	Ala	Gly	His
	115						120					125			

Val Asp Ile Cys  
130

<210> 201  
<211> 120  
<212> PRT  
<213> Homo sapiens

<400> 201  
Met Leu Val Leu Val Leu Gly Asp Leu His Ile Pro His Arg Cys Asn  
1 5 10 15  
Ser Leu Pro Ala Lys Phe Lys Lys Leu Val Pro Gly Lys Ile Gln  
20 25 30  
His Ile Leu Cys Thr Gly Asn Leu Cys Thr Lys Glu Ser Tyr Asp Tyr  
35 40 45  
Leu Lys Thr Leu Ala Gly Asp Val His Ile Val Arg Gly Asp Phe Asp  
50 55 60  
Glu Asn Leu Asn Tyr Pro Glu Gln Lys Val Val Thr Val Gly Gln Phe  
65 70 75 80  
Lys Ile Gly Leu Ile His Gly His Gln Val Ile Pro Trp Gly Asp Met  
85 90 95  
Ala Ser Leu Ala Leu Leu Gln Arg Gln Phe Asp Val Asp Ile Leu Ile  
100 105 110  
Ser Gly His Thr His Lys Phe Glu  
115 120

<210> 202  
<211> 135  
<212> PRT  
<213> Homo sapiens

<400> 202  
Arg Met Cys Ser Leu Thr Phe Tyr Ser Lys Ser Glu Met Gln Ile His  
1 5 10 15  
Ser Lys Ser His Thr Glu Thr Lys Pro His Lys Cys Pro His Cys Ser  
20 25 30  
Lys Thr Phe Ala Asn Ser Ser Tyr Leu Ala Gln His Ile Arg Ile His  
35 40 45  
Ser Gly Ala Lys Pro Tyr Ser Cys Asn Phe Cys Glu Lys Ser Phe Arg  
50 55 60  
Gln Leu Ser His Leu Gln Gln His Thr Arg Ile His Thr Gly Asp Arg  
65 70 75 80  
Pro Tyr Lys Cys Ala His Pro Gly Cys Glu Lys Ala Phe Thr Gln Leu  
85 90 95  
Ser Asn Leu Gln Ser His Arg Arg Gln His Asn Lys Asp Lys Pro Phe  
100 105 110  
Lys Cys His Asn Cys His Arg Ala Tyr Thr Asp Ala Ala Ser Leu Glu  
115 120 125  
Val His Leu Ser Thr His Thr  
130 135



<210> 203  
 <211> 135  
 <212> PRT  
 <213> Homo sapiens

<400> 203  
 Leu Leu Leu Ala Arg Trp His Ser Ala Ala Phe Lys Val Arg Ala Gly  
 1 5 10 15  
 Ala Arg Gln Glu Leu Ala Met Lys Ser Leu Lys Ser Arg Leu Arg Arg  
 20 25 30  
 Gln Asp Val Pro Gly Pro Ala Ser Ser Gly Ala Ala Ala Ser Ala  
 35 40 45  
 His Ala Ala Asp Trp Asn Lys Tyr Asp Asp Arg Leu Met Lys Ala Ala  
 50 55 60  
 Glu Arg Gly Asp Val Glu Lys Val Thr Ser Ile Leu Ala Lys Lys Gly  
 65 70 75 80  
 Val Asn Pro Gly Lys Leu Asp Val Glu Gly Arg Ser Val Phe His Val  
 85 90 95  
 Val Thr Ser Lys Gly Asn Leu Glu Cys Leu Asn Ala Ile Leu Ile His  
 100 105 110  
 Gly Val Asp Ile Thr Thr Ser Asp Thr Ala Gly Arg Asn Ala Leu His  
 115 120 125  
 Leu Ala Ala Lys Tyr Gly His  
 130 135

<210> 204  
 <211> 167  
 <212> PRT  
 <213> Homo sapiens

<400> 204  
 Ala Leu Gly Glu Ala Pro Asp His Ser Tyr Glu Ser Leu Arg Val Thr  
 1 5 10 15  
 Ser Ala Gln Lys His Val Leu His Val Gln Leu Asn Arg Pro Asn Lys  
 20 25 30  
 Arg Asn Ala Met Asn Lys Val Phe Trp Arg Glu Met Val Glu Cys Phe  
 35 40 45  
 Asn Lys Ile Ser Arg Asp Ala Asp Cys Arg Ala Val Val Ile Ser Gly  
 50 55 60  
 Ala Gly Lys Met Phe Thr Ala Gly Ile Asp Leu Met Asp Met Ala Ser  
 65 70 75 80  
 Asp Ile Leu Gln Pro Lys Gly Asp Asp Val Ala Arg Ile Ser Trp Tyr  
 85 90 95  
 Leu Arg Asp Ile Ile Thr Arg Tyr Gln Glu Thr Phe Asn Val Ile Glu  
 100 105 110  
 Arg Cys Pro Lys Pro Val Ile Ala Ala Val His Gly Gly Cys Ile Gly  
 115 120 125  
 Gly Gly Val Asp Leu Val Thr Ala Cys Asp Ile Arg Tyr Cys Ala Gln  
 130 135 140  
 Asp Ala Phe Phe Gln Val Lys Glu Val Asp Val Gly Leu Ala Ala His  
 145 150 155 160  
 Val Gly Thr Leu Gln Arg Leu  
 165

<210> 205  
 <211> 381  
 <212> DNA  
 <213> Homo sapiens

<400> 205  
 aaatttgga tcacgcctg ttctgaaaac tagatgcacc aaccgtatca ttatttggtt 60  
 gaggaaaaa agaaatctgc attttaattc atgttggtca aagtcgaatt actatctatt 120  
 tatcttatat cgtagatctg ataaccctat ctaaaagaaa gtcacacgct aaatgtattc 180  
 ttacatagtg cttgtatcgt tgcatttggt ttaatttggt gaaaagtatt gtatctaact 240  
 tgtattactt tggtagtttc atctttatgt attattgata ttgttaattt tctcaactat 300  
 aacaatgtag ttacgctaca acttgccata aacattcaaa cttgttttct tttttctggt 360  
 gttttctttg ttaattcatt t 381

<210> 206  
 <211> 514  
 <212> DNA  
 <213> Homo sapiens

<400> 206  
 aaaagtaaat tgcataaaat tacatccaat ttctttctct aaaccaacat attcttcacc 60  
 ttcacaaaagc aaacacatgg tgcactgaaa ccgagggtgt accagcttta catactgttc 120  
 tgccattttgt ggggggtgca accacaacat aagtcagaaa aaaagctatc cagcttttctg 180  
 tggaatctgg tgaagtttac acttagcgat aagcctctaa gcctgaactt agcagggtta 240  
 gcaaaaacttt atttatttcc taactcctat tatttttagaa tggttttcaa aataatactg 300  
 caagttccta attgaaatac aaaacagaa aaaaagctgt gagaaatctt tttttttctt 360  
 tggctcctta aagacttggg ataatttata ttagtgttgc atacatttta ccttctact 420  
 tttgatgtac ttgctcttga aagcactaga acaattaat tgaaataaaa cctctctgaa 480  
 accatttgaa tctttgatcc taccatagag tttt 514

<210> 207  
 <211> 522  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 24  
 <223> n = A,T,C or G

<400> 207  
 caagcttttg gtgcatagca gccngcctgg aagcattctg agtgctctgt ctgccctggt 60  
 gggtttcatt atcctgtctg tcaaacaggc caccttaaat cctgcctcac tgcagtgtga 120  
 gttggacaaa aataatatac caacaagaag ttatgtttct tacttttctc atgattcact 180  
 ttataccacg gactgctata cagccaaagc cagtctggct ggaactctct ctctgatgct 240  
 gatttgact ctgctggaat tctgcctagc tgtgctcact gctgtgctgc ggtggaaaca 300  
 ggcttactct gacttccctg ggagtgtact tttcctgcct cacagttaca ttggtaattc 360  
 tggcatgtcc tcaaaaatga ctcatgactg tggatatgaa gaactattga cttcttaaga 420  
 aaaaaggagg aaatattaat cagaaagttg attcttatga taatatggaa aagttaacca 480  
 ttatagaaaa gcaaagcttg agtttcctaa atgtaagctt tt 522

<210> 208



agactggggg aaaaccacaga aacatacaga gaaaaggaaa gcatcatcaa atatatgtta 360  
 aaaattaaga tgatgtttac tactagtcac cctacaacaa ttt 403

<210> 212  
 <211> 345  
 <212> DNA  
 <213> Homo sapiens

<400> 212  
 cctctttatg agttcattac tgctgttcag tctcggcaca cagacacccc tgtgcaccgg 60  
 ggtgtacttt ctactctgat cgctgggcct gtggttgaga taagtcacca gctacggaag 120  
 gtttctgacg tagaagagct taccctcca gagcatcttt ctgatcttcc accattttca 180  
 aggtgtttta taggaataat aataaagtct tcgaatgtgg tcaggtcatt tttggatgaa 240  
 tttaaaggcat gtgtggcttc taatgatatt gaaggcattg tgtgcctcac ggctgctgtg 300  
 catattatcc tggttattaa tgcaggtaaa cataaaagct caaaa 345

<210> 213  
 <211> 318  
 <212> DNA  
 <213> Homo sapiens

<400> 213  
 aaaatgtttt attattttga aaataatggt gtaattcatg ccagggactg acaaaagact 60  
 tgagacagga tggttattct tgtcagctaa ggtcacattg tgcctttttg accttttctt 120  
 cctggactat tgaaatcaag cttattggat taagtgatat ttctatagcg attgaaaggg 180  
 caatagttaa agtaatgagc atgatgagag tttctgttaa tcatgtatta aaactgattt 240  
 ttagctttac aaatatgtca gtttgcagtt atgcagaatc caaagtaaat gtcctgctag 300  
 ctagttaagg attgtttt 318

<210> 214  
 <211> 462  
 <212> DNA  
 <213> Homo sapiens

<400> 214  
 aaacacatct ggttctggca gcaagttata ttatgcattt agagcaatag gtgccctgaa 60  
 agttattgtt gctttttttg tttttttttt cagtttgtgc gtgtcacttg aatcagaaac 120  
 caaacacatg taaaaaata tcatcctcaa tgcccccat taactctctc tccagaaggt 180  
 gacaatgtta gtgaactcaa gactctcact gatgatggta tttacaatg aaaacacaag 240  
 gaaacccttt gaggtccaat tttcacatca tattctccaa atagtataat agcagctcta 300  
 catgttgatg aaaagaaatt tcaattttctt cctattttgtt tttactcata tcaacattaa 360  
 tatgtatctg gatattattaa tttccaaaaa gaaaatttta gttaccaaatt atttcagaaa 420  
 ttaataaag cattatatat atgtaattag cacttatcta cc 462

<210> 215  
 <211> 280  
 <212> DNA  
 <213> Homo sapiens

<400> 215  
 aaacttttct gaaacgatta gctgtagcca aattatgtgg ttacgttttg ctacattaga 60  
 atttgaaaat gcaatatgtg tggtaaactct actgtttgaa atttataatg gtctctgata 120  
 tgattcgaat tttggtaact tttgaaagt ttttccccc tttagtcag gatttctatt 180  
 tgttttttaa tgtaattttt tctagaaagc atctgaattg actaggcttt tcctatataa 240



```

atTTTTatTTt tggTTTTctt acaaaggTtg acatTTTcca taacaggTgt aagagtgttg 360
aaaaaaaagt tcaaattttt gggggagcgg                                     390

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<210> 220
<211> 341
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> 86, 87, 88, 188, 189, 190
<223> n = A,T,C or G

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<400> 220
aaaacaggca aagTTTTaca gagaggatac atttaataaa actgcgagga catcaaagtg 60
gtaaatactg tgaaatacct tttctnnnca aaaggcaaat attgaagttg tttatcaact 120
tcgctagaaa aaaaaaaaca cttggcatac aaaatatTTa agtgaaggag aagtctaacg 180
ctgaactnnn aatgaaggga aattgTTTat gtgttatgaa catccaagtc tttcttcttt 240
tttaagttgt caaagaagct tccacaaaat tagaaaggac aacagttctg agctgtaatt 300
tcgccttaaa ctctggacac tctatatgta gtgcattttt a                                     341

```

```

<210> 221
<211> 234
<212> DNA
<213> Homo sapiens

```

```

<400> 221
ccagggggaa ttgagggagg ctctaagcta ggggcactgc atggtgggac aggatggccc 60
cttgaggact gaaccttggg gagaagacaa acagtaataa taaaaacaaa taacaagtac 120
tttaagaatg gattgtatga cctatatgta cagatgacat cactaatact gaaagcttct 180
tatattaata attttggcaa aatgtcattt tgtaatatag tatatgcttt ccag          234

```

```

<210> 222
<211> 186
<212> DNA
<213> Homo sapiens

```

```

<400> 222
aaattttcat tgagttgtcc atctccagca tatagggctt caggagcaga gcagaccttg 60
tttttagtgg ttccatggga taaaatggga ttggaggagc tagaagaatt caggggtctg 120
tccaatctgc cagtcttctt gaaatatcga aaatacacca gggctgctat atcagagcca 180
ccctgg                                     186

```

```

<210> 223
<211> 486
<212> DNA
<213> Homo sapiens

```

```

<400> 223
ccataagcag ataagtagca gttcaactgg atgtctctct tctccaaatg ctacagtaca 60
aagccctaag catgagtgga aaatcgttgc ttcagaaaag acttcaaata acacttactt 120
gtgcctggct gtgctggatg gtatatctct tgtcattttt cttcatggga gaaacagccc 180
acagagctca ccaacaagta ctccaaaact aagtaagagt ttaagctttg agatgcaaca 240
agatgagcta atcgaaaagc ccattgtctc tatgcagtag gcacgatctg gtctgggaac 300

```



ctgctgcata	gaaaatatgc	taacatacaa	cagtcaagtt	taagcctgtg	catagagaag	60
ataaagcact	tatggtaact	gcaaatggta	acgagtcctt	aagggttgta	caacctagta	120
tgggtccata	aggaaaaact	gtagtagaaa	tggttaggac	aaacaataaa	gtagaaacag	180
gggggaaaact	tgagaagaga	agaaagaagc	aagaaaaaaa	gactttcaat	tgtataaaaat	240
tcacaaaacca	gtaaagtata	aagacaccat	ggagaaatgg	ttaactctgc	cccaaacacc	300
caacagcaaa	caaaaccaga	atgaataagc	ctttggcaga	caatttttaga	aattttgaatg	360
ttacattttct	caataattca	caaacaatat	attatatggt	atattttatat	taaattattgg	420
gaaaccaatg	ttgtaaattt	gatgcttata	atgctttagc	caatgagagc	acaatgatat	480
caatcaagct	aaatgaatgc	tggtgtttatc	acaacagtgc	tcattttatga	aacaa	535

<210> 228

<211> 301

<212> DNA

<213> Homo sapiens

<400> 228

aacaataaaa	caccatcaac	cttattgact	ttattgtccc	ttaaattata	ttgactgttg	60
tgattccatc	aagtttgtac	actcttttct	ctccctgttt	tgcagcaaca	aattgcgaag	120
tgcttttggt	tgtttgtttt	cgtttggtta	aagcttatgt	ccatgctggt	gcggctatgg	180
agactgtctg	gaaggcttgg	aatggtttat	tgcttatggt	aaaatttgcc	tgattttctta	240
caggcagcgt	ttggaaacct	tttattatat	agttgtttac	atacttataa	gtctatcatt	300
†						301

<210> 229

<211> 420

<212> DNA

<213> Homo sapiens

<400> 229

aaagtgtgctt	tgctggaagt	ttttataagg	aatctcagat	taaaccttta	gaagtttaat	60
tgacactagg	aagccaaacc	aaggctgact	tcagactttg	tttgtagtac	ctgtggggtt	120
attacctatg	ggtttatatc	ctcaaatacg	acattctagt	caaagtcttg	gtaatataac	180
caatgttttc	aaatgtattc	tgtcatacaa	agagcagatt	tttattgaac	ttgtgcaata	240
actataattc	catacaatat	aaatatctat	gaatagtttc	ccaagtctgg	agcgaccaca	300
tagggagaaa	atgcaaatgt	ctcaaatttt	gttcacaaaa	gtatatttta	tcaaatttgt	360
gtaagctctg	gatagcttaa	aaqaaaaaaaa	gtttcctgaa	atctgggaaa	caaagacattt	420

<210> 230

<211> 419

<212> DNA

<213> Homo sapiens

 $\langle 400 \rangle$  230

gtgaagtcct	aaagcttgca	tccaccagc	ttctacaata	gccggttat	tactagagca	60
gacagatagc	accttcagca	ctctgcttgt	ggtccacagt	agtttttcgt	aagtataggt	120
cctcattata	tttactaaag	cttgggggtcc	accactagcc	agtatgatga	gcttgctttc	180
ttggttgcca	taagctaaaa	tttgaaggca	gtctgtcgt	atagccaaga	atttaacatt	240
tgttttgttg	agcaaggcaa	ccattttctg	cagcccacca	gctaaacgca	ctgccatttt	300
agctccttct	tgatgtaata	aaaggttgtg	gagagttgta	atggcataaa	acaacacaga	360
atccactggt	gaaccaagca	ttttcaccag	ggcaggaatg	cctccagact	taaagatgg	419

<210> 231

<211> 389





<210> 235  
 <211> 482  
 <212> DNA  
 <213> Homo sapiens

<400> 235  
 gaagaaagtt agatttacgc cgatgaatat gatagtgaaa tggatttttg cgtagggttg 60  
 gtctaggggtg tagcctgaga ataggggaaa tcagtgaatg aagcctccta tgatggcaaa 120  
 tacagctcct attgatagga catagtggaa gtgagctaca acgtagtacg tgcgtgtag 180  
 tacgatgtct agtgatgagt ttgctaatac aatgccagtc aggccaccta cggtgaaaag 240  
 aaagatgaat cctagggctc agagcactgc agcagatcat ttcattattgc ttccgtggag 300  
 tgtggcgagt cagctaaata ctttgacgcc ggtggggata gcgatgatta tggtagcgga 360  
 ggtgaaatat gtcgtgtgt ctacgtctat tcctactgta aatatatggg gtgctcacac 420  
 gataaacct aggaagccaa ttgatatcat agctcagacc atacctatgt atccaaatgg 480  
 tt 482

<210> 236  
 <211> 149  
 <212> DNA  
 <213> Homo sapiens

<400> 236  
 cctcttcatt gttcacatgt cacaggagga ggctctgagc aaaggccact ggcaagttag 60  
 ggcaacacca agaaggtctt geggagagac tcctgtggg ttggggcctg gcaggaacgg 120  
 tgctgtgga ctgtttatgg tctgtccag 149

<210> 237  
 <211> 391  
 <212> DNA  
 <213> Homo sapiens

<400> 237  
 gaagctaaat ccaaagaaat atgaagggtg ccgtgaatta agtgatttta ttagctatct 60  
 acaaagagaa gctacaaacc cccctgtaat tcaagaagaa aaaccaaga agaagaagaa 120  
 ggacaggag gatctctaaa gcagtagcca aacaccactt tgtaaaagga ctcttccatc 180  
 agagatggga aaaccattgg ggaggactag gaccatattg ggaattatta cctctcaggg 240  
 ccgagaggac agaattgata taatctgaat cctgtttaa tttctctaaa ctgtttctta 300  
 gctgcactgt ttatggaaat accaggacca gtttatgtt gtggttttg gaaaaattat 360  
 ttgtgttggg ggaaatgttg tgggggtgg g 391

<210> 238  
 <211> 374  
 <212> DNA  
 <213> Homo sapiens

<400> 238  
 aaaaaacaaa acaatgtaag taaaggatat ttctgaatct taaaattcat cccatgtgtg 60  
 atcataaact cataaaaaata attttaagat gccggaaaag gatactttga ttaaataaaa 120  
 aactcatgg atatgtaaaa actgtcaaga ttaaaattta atagtttcat ttatttgta 180  
 ttttatgtt aagaaatagt gatgaacaaa gatcctttt catactgata cctggttgta 240  
 tattatttga tgcaacagtt ttctgaaatg atatttcaaa ttgcatcaag aaattaaaat 300  
 catctatctg agtagtcaaa atacaagtaa aggagagcaa ataaacaaca tttggaaaaa 360  
 aaaaaaaaaa aaaa 374

<210> 239  
 <211> 200  
 <212> DNA  
 <213> Homo sapiens

<400> 239  
 aaagatgtct ttgaccgcat atgtactgga aatttcaaac gtggatcttc ccaggttgta 60  
 gtcttttgtgt tatgatcaat gaagaagggc cggccgtttg gcgctatcct catttcccag 120  
 ccgggtggca agaagctctg tgtgactttg tgtgtgggtt tgggggagtt gtaaggtgat 180  
 ggctgtgggg actgtggggt 200

<210> 240  
 <211> 314  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 67, 71, 76, 99, 224  
 <223> n = A,T,C or G

<400> 240  
 ctggtaaact gtccaaaaca aggttccaaa taacacctct tactgattta ccctacccat 60  
 acatatnoca natagntttt gatcaaaaac atgaaatana tccacctgct tattttaagc 120  
 atattaaaaa ggaaactaat tggaccattt tctatttgtc tattttatac aaaaaggcta 180  
 cacaattgat acaactctatt cagataacaa tcaattagag tgantatgaa ttactggcga 240  
 caccatcact caattcttaa aaattagaaa ttgctgtagc agtattcact ataacttaac 300  
 actaccgaga gact 314

<210> 241  
 <211> 375  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 302, 316, 328, 329, 333, 340, 343, 354, 355, 362  
 <223> n = A,T,C or G

<400> 241  
 ccaagtcctt ggagttatag gatattcatt acttcctctc attgtaatag cccctgtact 60  
 tttgggtggtt ggatcatttg aagtgggtgc tacacttata aaactgtttg gtgtgttttg 120  
 ggctgcctac agtgctgctt cattgttagt ggggtgaagaa ttcaagacca aaaagcctct 180  
 tctgatttat ccaatctttt tattatacat ttatcttttg tcgttatata ctggtgtgtg 240  
 atccaagtta tacatgaata gaaaaagatg gtgttaaatt tgtgtgtagg ctgggaattc 300  
 tngctaaggg aatggnaaaa aacctgtntt tgnaaaattn acntgtccca aagnnaagga 360  
 anctaaacgc ttttt 375

<210> 242  
 <211> 387  
 <212> DNA  
 <213> Homo sapiens

<400> 242  
aaaggcattc tctgatttac atgagaattg agaaactgag atgtatgatt tgtctgttag 60  
tcaatttcac accctttcat tctcataagc cccaaatttt gctcagttaa ggagcttgct 120  
ttaggcccac ctatgtaagt ctgttatact agctaattgtg cccatttgaa tagttcaagg 180  
gtcagctaatt gctctgagct tcatggctcc agtataaaga acaaatttaa caaaattaag 240  
ctgttactgt agccgagtta cccttctgct ccacacatat gtagtgggat cttgcaggat 300  
ttccatagtg ccaattatca aaggccttga ctacttagca ttgctgtatt acagatgtgc 360  
aaactgaggc actgaaaagt caaattt 387

<210> 243  
<211> 536  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 30, 344, 510  
<223> n = A,T,C or G

<400> 243  
aaaccaaag gacgaagaaa aaacactttn aaaaaaaaaa aaaaaaaga aaaaccaaac 60  
catattttgc cacatgtgag agtacgggtca agcagtattt acaaaaagggt taacggaaca 120  
acactctgac acatgctctg agaatactgg gactgctgtt tcaaaaaaaaa aggttcaaac 180  
ttattgtcac agcatcatca caaaatagag gatcaccatt ggtttgcttg gcttttcttt 240  
ttttttttcc cccaagttag gacctaactc caaataatac aatagaatat gcaaattatc 300  
ttcacatcaa gagtacccca agaaaaacga aatccatggc acanacactg tacaaggggtg 360  
cagggcaggg ctctgagggg cccaaacccc attttgccaa ctcgattttc tagcattgaa 420  
gggagcaagg ggtcaggcat atgatggaga tgatactgaa atgattttatc caaaatccat 480  
gcaaatacaag ttctttggat agaggtgaan aacttggaca tggctgtttc aggcag 536

<210> 244  
<211> 397  
<212> DNA  
<213> Homo sapiens

<400> 244  
ccaggataat atacacaggt ttgcagctaa aactgtgcac agtgggtcat tgatgctagt 60  
cacagtggaa ctgaaggaag gctctacagc ccagcttatc ataaacactg agaaaactgt 120  
gattggctct gttctgctgc gggaaactgaa gcctgtcctg tctcaggggt aacctgctta 180  
catctggact ttagaatctg gcacacaaca aaagtgcctg gcatccacta ctgctgcctt 240  
tcatttataa taatagccct tccatctggc agtgggggaa gaatacactc ttgacattct 300  
tgtctcctgc tttagaatgc tagtgtgtat ctatcatgta tgcaataactt tccccctttt 360  
tgctttgcta accaaagagc atatatttta ctgtcag 397

<210> 245  
<211> 508  
<212> DNA  
<213> Homo sapiens

<400> 245  
cgaggagtgc cttaagtgcg aggacctcaa agtgggacaa tatatttgta aagatccaaa 60  
aataaatgac gctacgcaag aaccagttaa ctgtacaaac tacacagctc atgtttcctg 120  
ttttccagca cccaacataa cttgtaagga ttccagtggc aatgaaacac attttactgg 180  
gaacgaagtt ggttttttca agcccatatc ttgccgaaat gtaaatggct attoctacaa 240

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agtggcagtc gcattgtctc tttttcttgg atggttggga gcagatcgat tttaccttgg 300
ataccctgct ttgggtttgt taaagttttg cactgtaggg ttttgtggaa ttgggagcct 360
aattgatttc attcttattt caatgcagat tgttggacct tcagatggaa gtagttacat 420
tatagattac tatggaacca gacttacaag actgagtatt actaatgaaa catttagaaa 480
aacgcaatta tatccataaa tttttttt 508

```

```

<210> 246
<211> 358
<212> DNA
<213> Homo sapiens

```

```

<400> 246
aaatgttggg attcaaaacc aaagatataa ccgaaaggaa aaacagatga gacataaaat 60
gatttgcagg atgggaaata tagtagttta tgaatgtaaa ttaaattcca gttataatag 120
tggtctacaca ctctcactac acacacagac cccacagtcc tatatgccac aaacacattt 180
ccataacttg aaaatgagta ttttgcatac ctacagttcag gatatgtttt ttacaagtta 240
atcctaaagt cataaagcaa gaagctattc atagtacaag attttatttg ctaagcttta 300
caaattaaac tctaaaaaat tattacaatg atactgaaag atattttatt ggccctttt 358

```

```

<210> 247
<211> 673
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 605, 618, 635, 644, 651, 660, 668
<223> n = A,T,C or G

```

```

<400> 247
gaagaaagtt agatttacgc cgatgaatat gatagtgaat tggatttttg cgtaggtttg 60
gtctaggggtg tagcctgaga ataggggaaa tcagtgaatg aagcctccta tgatggcaaa 120
tacagctcct attgatagga catagtggaa gtgagctaca acgtagtacg tgtcgtgtag 180
tacgatgtct agtgatgagt ttgctaatac aatgccagtc aggccaccta cggtgaaaag 240
aaagatgaat cctaggggctc agagcactgc agcagatcat ttcattattgc ttccgtggag 300
tgtggcgagt cagctaaata ctttgacgcc ggtggggata gcgatgatta tggtagcgga 360
ggtgaaatat gctcgtgtgt ctacgtctat tcctactgta aatatatggt gtgctcacac 420
gataaacctt aggaagccaa ttgatatcat agctcagacc atacctatgt atccaaatgg 480
ttcttttttt ccggagtagt aagttacaat atgggagatt attccgaagc ctggtaggat 540
aagaatataa acttcagggt gaccgaaaaa tcagaatagg tgttggata gaatgggggtc 600
tcctnctccg cggggtcnaa gaagggtgtg ttgangttgc cggnctgtta ntagtatagn 660
gatgccanca gct 673

```

```

<210> 248
<211> 149
<212> DNA
<213> Homo sapiens

```

```

<400> 248
cctcttcatt gttcacatgt cacaggagga ggctctgagc aaaggccact ggcaagttag 60
ggcaacacca agaaggctct gcggagagac tcctgtggg ttggggcctg gcaggaaacg 120
tgctgtgga ctgtttatgg tctgtccag 149

```

```

<210> 249

```

<211> 458  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 450  
 <223> n = A,T,C or G

<400> 249  
 gaagctaaat ccaaagaaat atgaaggtgg ccgtgaatta agtgatttta ttagctatct 60  
 acaaagagaa gctacaaacc cccctgtaat tcaagaagaa aaaccaaga agaagaagaa 120  
 ggcacaggag gatctctaaa gcagtagcca aacaccactt tgtaaaagga ctcttccatc 180  
 agagatggga aaaccattgg ggaggactag gaccatatg ggaattatta cctctcaggg 240  
 ccgagaggac agaattggata taatctgaat cctgttaaat tttctctaaa ctgtttctta 300  
 gctgcaactgt ttatggaaat accaggacca gtttatgttt gtgggttttg gaaaaattat 360  
 ttgtgttggg ggaaatgttg tgggggtggg gttgagttgg gggatatttc taattttttt 420  
 tgtacatttg gaacagtgac aataaatgan accccttt 458

<210> 250  
 <211> 374  
 <212> DNA  
 <213> Homo sapiens

<400> 250  
 aaaaaacaaa acaatgtaag taaaggatat ttctgaatct taaaattcat cccatgtgtg 60  
 atcataaact cataaaaaata attttaagat gccggaaaag gatactttga ttaaataaaa 120  
 aactcatgg atatgtaaaa actgtcaaga ttaaaattta atagtttcat ttatttggtta 180  
 ttttatttgt aagaaatagt gatgaacaaa gatccttttt catactgata cctgggttgta 240  
 tattatttga tgcaacagtt ttctgaaatg atatttcaaa ttgcatcaag aaattaaaaat 300  
 catctatctg agtagtcaaa atacaagtaa aggagagcaa ataaacaaca tttggaaaaa 360  
 aaaaaaaaaa aaaa 374

<210> 251  
 <211> 356  
 <212> DNA  
 <213> Homo sapiens

<400> 251  
 aaagatcttc tctaacaagc tatgggaatt tggcttcata ctctttcttt gcaacagcag 60  
 tgttctgggt gataattttg aattgatacc tgttcctttt tctgggtttt gttggctttt 120  
 tgaaaaattg tctttcctta tcattgggtg gaggttggg agcaaagtaa cattttttgg 180  
 aaaagaggac agaaaaattg aactacagct tgagaacgta ttcttttttt cctactttgt 240  
 tattgcaa at tgaggaatca cttttaactg ttttaggtgt gtgtgtccag agtgagcaag 300  
 gattatgttt ttggattgtc aaagaggatg cttagtctta aaataaaaaa aaattt 356

<210> 252  
 <211> 484  
 <212> DNA  
 <213> Homo sapiens

<400> 252  
 ctgtgaaact gtccaaaaca aggttccaaa taacacctct tactgattta ccctacccat 60  
 acatatccca aatagttttt gatcaaaaac atgaaataga tccacctgct tattttaagc 120



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atgtggtcgc tccagacttg ggaaactatt catgaatatt tatattgtat ggtaatatag 180
ttattgcaca agttcaataa aaatctgctc tttgtatgac agaatt                    225

```

```

<210> 256
<211> 544
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 31, 445, 518
<223> n = A,T,C or G

```

```

<400> 256
ccttgcttaa agcccagaag tggtttaggc ntttgaaaa tctgggtcac atcataaaga 60
acttgatttg aaatgttttc tatagaaaca agtgctaagt gtaccgtatt atacttgatg 120
ttggtcattt ctcagtccta tttctcagtt ctattatttt agaacctagt cagttcttta 180
agattataac tggtcctaca ttaaaataat gcttctcgat gtcagatttt acctgtttgc 240
tgctgagaac atctctgcct aatttaccaa agccagacct tcagttcaac atgcttcctt 300
agcttttcat agttgtctga catttccatg aaaacaaagg aaccaacttt gttttaacca 360
aactttgttt ggttacagtt ttcaggggag cgtttcttcc atgacacaca gcaacatccc 420
aaagaaataa acaagtgtga caaanaaaaa aacaaaccta aatgctactg ttccaaagag 480
caacttgatg gtttttttta atactgagtg caaaaggnc aacaaattcc tatgatgaaa 540
tttt                                         544

```

```

<210> 257
<211> 420
<212> DNA
<213> Homo sapiens

```

```

<400> 257
aaatgtcttg tttcccagat ttcaggaaac tttttttctt ttaagctatc cacagcttac 60
agcaatttga taaaatatac ttttgtgaac aaaaattgag acattttacat tttctcccta 120
tgtggctcgt ccagacttgg gaaactattc atgaatattt atattgtatg gtaatatagt 180
tattgcacaa gttcaataaa aatctgctct ttgtatgaca gaatacattt gaaaacattg 240
gttatattac caagactttg actagaatgt cgtatttgag gatataaacc cataggtaat 300
aaaccacag gtactacaaa caaagtctga agtcagcctt ggtttggtt cctagtgtca 360
attaacttc taaaagttta atctgagatt ccttataaaa acttccagca aagcaacttt 420

```

```

<210> 258
<211> 736
<212> DNA
<213> Homo sapiens

```

```

<400> 258
aaacaaaatg ctaaacctaa aaacattggt ctgtcagttc ccaaattaaa tctacttaga 60
acaaaaacaa aaatttatag ctcggtcaca tactacttaa ataatttgtt tcaggcatct 120
ctaaaatcct ccatgttttc aagtatggaa atagaactca aatattccac aatacagtac 180
taaacagatg gagtatattg gaaagacttt gttgtcatat ggcacaatat taatattttg 240
ttgcttcaat acgttttgaa ataaatatca gatttttgtt tttttttcct aaaagaccaa 300
aattataatc tacattaaga taattctgac tgtgggtaag acttaagagt gtaaaataca 360
acatcaatat tttatcacaa aagtaaagct ggtaacaaat tataaaagga gccagtactc 420
tactgagaca ggctcggaga ttaaagctca tcatgataga aatagtcatc atggagctgt 480

```



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ctgccataat ctgtggcttc actggtgaga aacaagtccg ggttttccag aatctcttct 540
tcagagagct ttttgtcacc attcaaatcc atttcatcaa ttagatgaag cgcctcctct 600
tgtgcaatgc cctgattatt aggtctaccc aaggtaacag ctcttgggga tcaagcctgc 660
catcgttatc tttgtcataa tcattcaccg aatctgtctt tctcacaagt atcccattct 720
ggatcttcac ttgcag 736

```

```

<210> 259
<211> 437
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 32
<223> n = A,T,C or G

```

```

<400> 259
aaaaccatac tgaaatcatt taccaaataa cnaagatctt aatctaaaag atagtgaata 60
catcatcatc atgaaatctg gttttatgtg ctctatgaag tacttggaga attgcttttt 120
tatttttctt ttgctttatt aggtcacaca aaacagaatg aattagcaga aaaatgtatg 180
ttataaaaca gcatttacta cttcaattta atttttttta ctaacaattg tggacccttt 240
tgatgacact tatgtatggt ttttaataat tatgtactta ttagtactta atgagccctt 300
cctgcctcaa tataaaatta ctaaaacttg agaattacag attttattgt aggccctgat 360
gttagtcact ttggagaagc taaaaatttg gaaatgatgt aattcccact gtaatagcat 420
agggattttg gaagcag 437

```

```

<210> 260
<211> 592
<212> DNA
<213> Homo sapiens

```

```

<400> 260
tttttttttt gaaaaatata aaattttaat aaaggctaca tctcttaatt acaataatta 60
ttgtaccaag taatttttct taaatgaact ctttataatg cataatttac agtataagta 120
gaacaaaatg tcatgacaaa agtcattgag tacaagactt gtaataaaaaa ggcataaaat 180
atattttatac ataaacccct ttcaaaaaac aagggaagc ttgagccctc aatatagggc 240
gacacacgga gcgggtgacc gtgcaggtac aggtactgta ctgattttaa gtcaagcact 300
agagatagtg gattaatact cttttgccgt acactatata cagatgtata gtacaagtaa 360
caatggcaaa cagaatgtac agattaactt aacacaaaaa cccgaacatc aaaatgaagg 420
tgtgtggagg aaaggtgctg ctgggtctcc ctacaactgt tcatttcttt gtggggcagg 480
gggtagttcc tgaatggctg tgggtccaat actaatgtaa aacaaaaaca gaaacaaaaa 540
aaacaaggaa ctgtcatttc cacgaaagca cagcggcagt gattctagca gg 592

```

```

<210> 261
<211> 450
<212> DNA
<213> Homo sapiens

```

```

<400> 261
gtggcagggc ccagccccga accagacaag ggaccctca aggagcttca ttctagcatg 60
agaaaaattga gaagtaaacc agaaagtac agaatgtctg aaggggacag tgtgggagaa 120
tccgtccatg ggaaaccttc ggtggtgtac agatttttca caagacttgg acagatttat 180
cagtcctggc tagacaagtc cacaccctac acggctgtgc gatgggtcgt gacactgggc 240
ctgagctttg tctacatgat tcgagtttac ctgctgcagg gttggtacat tgtgacctat 300

```



<220>  
 <221> misc\_feature  
 <222> 1, 31, 65, 68  
 <223> n = A,T,C or G

<400> 265  
 naactgcact ttatttggtta ctgtaacatt nttttttaac tgatcaacca taagcatgca 60  
 aaagnccnct gaaactgctt ccactgcctg ttgtatagaa atgggtaaat tataaagggtg 120  
 attcaatttg gagtccttc cttttttata gcacttctaa gctgtgtgcg cgacacacac 180  
 cacagaggta ggaaggacca cctttaataa attatcttct taatcgaga gaatttctga 240  
 agataaaact gacaaaatgc taaaccaagg ctttgatgag tcccaaagga ccacagatcc 300  
 atcggtcctc atttgaagaa ttcacccct gtagtgttct agcctttgta gggcactgga 360  
 ttacaagatc caccagggtc ctgaacaa 388

<210> 266  
 <211> 616  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 32  
 <223> n = A,T,C or G

<400> 266  
 aaatacagag tcaaaagatg atttataaaa tntaaaacat tttctgcttg gccgtatttg 60  
 aagacaagct gaatacatat ctatgttctg aataagtcca ctatggatat atataggaag 120  
 agatatacat atatccatcc acagatacac acacacatat atatttctgc atgtatatat 180  
 acataattct ttctatagtt acaggaaata cttcttctat aattctgatt ttgactcca 240  
 tctccacca tttactcatc cactcattac ctaaatcttg gctttcttcc ctatattgta 300  
 aataatccat ccaaacttct agccagtact gtcaggaggg ttcttgctcg agtgagctgt 360  
 taatactatt ttccactgac aacttctgca catcgaggac acagtgtatc tgaagactcc 420  
 gctgtatact tccaacaacg ggggcatttt tctttcgtag tcggcatgac aattacttta 480  
 taggaagact cttcacgaat atcaccacct tctaagttga tgaggaattt ccctttaagc 540  
 tcgattacat ctgcagtcac ctctcgtggt tcctgaccag taaagttgac tcagaagcca 600  
 tcattaattc attcaa 616

<210> 267  
 <211> 341  
 <212> DNA  
 <213> Homo sapiens

<400> 267  
 ccattatgta tgtattttct tgaaaaatac ttatttcagc tacttatttt taatagttac 60  
 ttattcttgt tgtattgtca tttgagtttt gtatatattt ttgatattaa ccccttgtca 120  
 catgtataat ttgcaaatat tttctccctt tttttagttg tcacattctg ttcatgtgat 180  
 cagattctgt gcagcagctt ttttaatttg agtgatctga ctgacttggt cttccttttg 240  
 tgtcctggga tatttaggtt aaatcaaaaa acttgctgcc cagaccaatg ttatggggct 300  
 ttcactctat tttttggtag tagtagttta agagttttag g 341

<210> 268  
 <211> 367  
 <212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 31, 66

<223> n = A,T,C or G

<400> 268

```

ttgtagattg gaatagcaaa agtgaatgct ntgacaaaaa tttttgccct cctaaataaa 60
gacgtntcct tctagagagc aaatctatca taaaatgtca aaactagaag agaataaaaat 120
gaaaggaaaa aacctagaaa aatatcctaa aatatcaaat gcagtcattt ctaaataataa 180
gccataatta tagctttacc tattgttctt attgttccta tgctgcttct acaatgttac 240
atcaactata cttagcttta ctctcccaaa atcttgggtga tgaagccttc tgagtgtgct 300
ttccaatgtg ccagaaccag aagggcattc caaggcttcc ccacatttcc tccattttacg 360
gagacag                                     367

```

<210> 269

<211> 270

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 29, 33, 62, 65, 68, 70, 264

<223> n = A,T,C or G

<400> 269

```

caaattctct cctcactaga cgtaagcctt ttntcactc tctcaatctt atgcatcata 60
gnaangcngn tgaggtggat taaaccaaac ccagctacgc aaaatcttag catactcctc 120
aattaccac atagatgaa taatagcagt tctaccgtac aaccctaaca taaccattct 180
taatttaact atttatatta tcctaactac taccgcatcc ctactactca acttaaactc 240
cagcaccacg accctactac tatntcgac                                     270

```

<210> 270

<211> 368

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 32

<223> n = A,T,C or G

<400> 270

```

ctgaatcatg aataacacta tataatagag tntaaggaac acaagcatta gatgtgatcc 60
ttgccccata cccttagatt atgtcagact aaagctgaca attctgccag gctctgaacc 120
cctagtgcc ccaacccaaa tcttggaagc aaagaatatg ccctgtcata caactttgta 180
caagttgtag taaaacaaag cttaagtttt ctcatctttc tacagcaaatt ggtcagttat 240
ttaataaaca ctaaaatgct cctaagaatc cattttgagt ttgtttacca aacacattgt 300
gcaagaactg actacacaaa aagtttcctt gaaatttggt ccacaaattc acttaagggt 360
ggaaattt                                     368

```

<210> 271

<211> 313

<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 67, 68  
<223> n = A,T,C or G

<400> 271  
aaatttatat aaaactctgt acatgttcac tttattattg cataaacagc ataattctca 60  
agacaanngt ttgcaaacac atgtccaatt caggaaaaaa aatttcacgt ttctcgtctg 120  
gcttttttct tcttttttat ttgtttggga gattccagc tagtttcaga cttgggtctgt 180  
gaaggaggca cactattttg cttgggtatt gacttggatt tatctgtctc ttgtagtatt 240  
ggcggcactt gggaagagct cttgtcagaa tcactttttg ataagattac agatggctcg 300  
gtagaagtag cag 313

<210> 272  
<211> 462  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 31  
<223> n = A,T,C or G

<400> 272  
aaaaaacatt tattttaata agactattgc naacacatta aaaaaactaa atagtaatat 60  
tacaaaatct atatacttgc acatttagta tttgtcaatg tgccagaggt tttcttcatg 120  
aaatttgact tctttgaagt gaaggctttt ttctatcatc tcttatagct ctgactgaat 180  
aagtcttaat gctttcttca tgttttctat caataggggg aaatcccgag gctcatatgt 240  
gtacaatctg ttagagtatc ttccagctat gtcagctcta actgttaaag aagggtctac 300  
aaacatgatt ctaggcacat attgcccac aggtgataaa ttcttatcag tggtttcatg 360  
cataaggttt agcatgatga acttattctg agccatttct tgtatttctt cattttgggc 420  
aaatactttc tttagtgtct gagagtattg acaatcctcc ag 462

<210> 273  
<211> 282  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 30, 66, 67  
<223> n = A,T,C or G

<400> 273  
ctgatcaaag catgggatat tttaatagtn ttatacataa tttttttaca tagaaaactt 60  
tacatnncat ttcatattat ataattctgc ttattctttc aaaaatttat acatccattg 120  
ggcaaggaat ggttttcatt aaattaccaa tattaatgc acttaatcat tgtgtatagg 180  
ttaaaccaaa gtaactatta actaactttt aggcatttta aggaggtaaa acatacattt 240  
tacacataag tatttgatgc aaatatgcag ataaaatttt tt 282

<210> 274

<211> 125  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 30, 33, 63, 68  
 <223> n = A,T,C or G

<400> 274  
 cagccctaga cctcaactac ctaaccaacn ttnccttaaaa taaaatcccc actatgcaca 60  
 ttnaatcnct ccaacatact cggattctac cctagcatca cacaccgcac aatcccctat 120  
 ctagg 125

<210> 275  
 <211> 528  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 33, 68, 470  
 <223> n = A,T,C or G

<400> 275  
 aaagctgtgg aaaagcttta ttatagattt ttntacagaa ttaaaaaagt tcaaacaata 60  
 ataagccngg aaccacaaat aattaaaagg aaacacagca atcccataaa caagcattct 120  
 ggcatctgtt agaaattttc cctcaaatta tgaaatgtag ctctccatgc tttccaatga 180  
 ttgttataat acccacaat atctgtgatt tcagtggaa actttaacaa aagttttctt 240  
 ttttaaggcat gatcctgatt ctttttttct tcaatatctc agtcatttca ggaactacct 300  
 taaataaatc tgcaactatt ccataatctg ccacttgga aattggagct tctgggtctt 360  
 tattaattgc cacaattgtc ttgctgtctt tcatcccagc taaatgttgg atggctccag 420  
 atattccaac agcaatataa agttctggtg ctactatttt tcccgctctgn ccaacttgca 480  
 tgtcattggg aacaaagcca gcatcaacag cagcacggga agcaccaa 528

<210> 276  
 <211> 420  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 30  
 <223> n = A,T,C or G

<400> 276  
 aaatgtcttg tttcccagat ttcagggaan tttttttctt ttaagctatc cacagcttac 60  
 agaaaacctga taaaatatac ttttgtgaac aaaaattgag acattttacat tttctcccta 120  
 tgtggctgct ccagacttgg gaaactattc atgaatatct atattgtatg gtaatatagt 180  
 tattgcacaa gttcaataaa aatctgctct ttgtatgaca gaatacattt gaaaacattg 240  
 gttatattac caagactttg actagaatgt cgtatttgag gatataaacc cataggtaat 300  
 aaaccacag gtactacaaa caaagtctga agtcagcctt gggttggtt cctagtgtca 360  
 attaaacttc taaaagttaa atctgagatt ctttataaaa acttcagca aagcaacttt 420

```
<220>
<221> misc_feature
<222> 31, 63, 566
<223> n = A,T,C or G
```

```
<210> 278
<211> 202
<212> DNA
<213> Homo sapiens
```

```
<400> 278
aaattggtat cgacggcaac caggggaagn tnctaaactc ctaatctatt ctggatocaa 60
ttngcnaagt ggggtcccat caaggttcag tggcagtgga tctgggacag atttcaactct 120
cacgatcagc agtctgcaac ccgaagattt tgcaacttac tactgtcaac agagttacat 180
gtccccgtac acttttggac cc                                     202
```

```
<220>
<221> misc_feature
<222> 63, 526, 577, 580, 586, 599, 608, 620, 624, 642, 643, 651,
660, 668, 681, 687, 692, 693
<223> n = A,T,C or G
```

<400> 279  
ctgtacttgg acaaaataag ttaattctat ttggttgctc attaaagttt tatgtggcta 60





```
tggatcttat agaccgttca tacaatgggt ttagcaagtt catagtaaga caaacaagtc 180
ctatcttttt ttttggctgg ggtgggggcg cccaggccga ggctgg 226
```

```
<210> 283
<211> 358
<212> DNA
<213> Homo sapiens
```

```
<400> 283
aaacaaaaat actcaagatc atttatatatt ttttggagag aaaactgtcc taatttagaa 60
tttccctcaa atctgagggg cttttaagaa atgctaacag atttttctgg aggaaattta 120
gacaaaacaa tgtcatttag tagaatattt cagtatttaa gtggaatttc agtatactgt 180
actatccttt ataagtcatt aaaataatgt ttcacaaat ggtaaattgg accactgggt 240
tcttagagaa atgttttttag gcttaattca ttcaattgtc aagtacactt agtcttaata 300
cactcagggt tgaacagatt attctgaata ttaaaattta atccattctt aatatattt 358
```

```
<210> 284
<211> 288
<212> DNA
<213> Homo sapiens
```

```
<400> 284
aaaacttttg ttaagaaaaa ctgccagttt gtgcttttga aatgtctgtt ttgacatcat 60
agtctagtaa aattttgaca gtgcatatgt actgttacta aaagctttat atgaaattat 120
taatgtgaag tttttcattt ataattcaag gaaggatttc ctgaaaacat ttcaagggat 180
ttatgtctac atatttgtgt gtgtgtgtgt gtatatatat gtaatatgca tacacagatg 240
catatgtgta tatataatga aatttatgtt gctggtattt tgcatttt 288
```

```
<210> 285
<211> 629
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 31, 34, 35, 115, 435, 526, 585
<223> n = A,T,C or G
```

```
<400> 285
cctaaaagca gccaccaatt aacaaagcgt ncanntcaa caccactac ctaaaaaatc 60
ccaaacatat aactgaactc ctacacacca attggaccaa tctatcacc tatanaagaa 120
ctaagttag tataagtaac atgaaaacat tctcctctgc ataagcctgc gtcagattaa 180
aacactgaac tgacaattaa cagcccaata tctacaatca accaacaagt cattattacc 240
ctcactgtca acccaacaca ggcattgtca taaggaaagg ttaaaaaaag taaaagggaac 300
togggcaaatc ttaccccgcc tgtttacca aaacatcacc tctagcatca ccagtattag 360
aggcaccgcc tgcccagtga cacatgttta acggccgcgg taccctaacc gtgcaaagggt 420
agcataatca cttgntcctt aattagggac ctgtatgaat ggcttcacga gggttcagct 480
gtctcttact tttaaccagt gaaattgacc tgcccgtgaa gaggcnggca tgacacagca 540
agacgagaag accctatgga gctttaattt attaatgcaa acagnaccta acaaacccca 600
caggtcctaa acttacccaa accctggca 629
```

```
<210> 286
<211> 485
<212> DNA
```

<213> Homo sapiens

<400> 286

```

aaatgtactt gctcagctca actgcatttc agttgtatta tagtccagtt cttatcaaca 60
ttaaaacctt tagcaatcat ttcaaatcta ttctgcaaat tgtataagaa taaagttaga 120
attaacaatt ttatTTTTgta caacagtgga attttctgtc atggataatg tgcttgagtc 180
cctataatct atagacatgt gatagcaaaa gaaacaaaca aaagccagga aaacactcat 240
tttcgccttg aatatgtaaa tgggattaat ttgtctctgt gccttatgtg gaaaggaact 300
tctttggttt tcctTTTTtg ttctggtgga agcatgtgca ggagacatat catccaaaca 360
taaaccatta aaatgtttgt ggtttgcttg gctgtaattt tcaaagtagt taattgagga 420
caaagggtaa tgcagaagtg atagcttttg ttgctgaggt cttgttttaa gtggccttga 480
tattt                                         485

```

<210> 287

<211> 340

<212> DNA

<213> Homo sapiens

<400> 287

```

cctggagtc ctaataaccacc cctcatacc acaccctgtg catacaccag ccaagccttt 60
cctggctctg gaagggaaga gaaaaaagac gcaggccacc tgggggttct gcagtctttg 120
gtcagtcag ccttctatct tagctgcctt tggcttccgc agtgtaaacc ttgcctgccc 180
ggaggcagga ggcccagctg gacctccgag ggccatgagc aggcagcagc catcttggcc 240
tcaagcttgc ctttcccttg agtccctctc tcccctcggc tctagccaga ggtgtagcct 300
gcagatctag gaagagaaga gctggggagg aggatgaagg                                         340

```

<210> 288

<211> 290

<212> DNA

<213> Homo sapiens

<400> 288

```

aaacagtctc tcctcgggtg ttctcttgct aaactgttca tcccagtttc ctctgaaata 60
gacagcattc accagaacca gccttggtcaa tggatccact gagcccggag agagcaactc 120
cgcaatttta ccttctgtct ttctcagctac ccagggtgtt atgtgttttc tggacttctc 180
tacggcgctg ataaagtcaa gctcctccat ctctgcttgg tagaattttt ggcaggaatc 240
tctaaaagat gagaggaaat cacaagactt ttccccaag agcctgttgg                                         290

```

<210> 289

<211> 404

<212> DNA

<213> Homo sapiens

<400> 289

```

ccacccacgc ttaggttccc atcacactga tgactccggg tttggcgagc acaggagcgc 60
aaaccttttc acattctttc tgtgatccaa atttgttttc gtttcacca caacctccat 120
accagaatct tgcacagctt ttggtgtttg gatcatagta ccattttaat atgaaatccc 180
tgcaagtccc ttcgtctttc ggcaacttgc atatatctgt ttcagtgaga gccaatgggt 240
ctgtgctcac cattagattg atggttgaac tagaagctga ccttgctggc tgtggagggt 300
ggggctgaga tttctttgta ctgaaacttc cgtggttagt ggctctgacc tgagacctca 360
ggtagcagac cacagccaca tggatatgtc gcccgagcag cagg                                         404

```

<210> 290

<211> 384

<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 305  
<223> n = A,T,C or G

<400> 290  
ccaggcgctc cttgtcggca tcagggaggg tggccttgaa ctgctcatgg gctgtgggtca 60  
gtccctggat ctctcfaatg gtgtgcacaa tgaagggtgc ctgcaggtec tccatggccc 120  
cctccatcca gttgttgaag ggtgcagccc gcttggcata ctccaagtac agctgggtcaa 180  
tggctctccag cagtttctcg gtccgctcca gagcttccct tcgcttctga gttagggccc 240  
ccagattgtc ccactgggtca cagatctttt ggcaacgggc gttgacactg ggtgagtcac 300  
aatantccag ctcatgtgagc tcctgtgcga tggcggcaat ctgctccaca cggtcctggg 360  
gggcagccag gccactctcg aagg 384

<210> 291  
<211> 278  
<212> DNA  
<213> Homo sapiens

<400> 291  
aaagtttatt tttactatct ctttatcact ttattgtatc atcaccattg gtttcataat 60  
gtaaatacta tatgttgaac aaattaaatg tcaaaatttt ttattaccat agtccatgtt 120  
aatagtgggg ctttcagggtg ttttagagatt ttttttggtg ttgttaacat tcattgcaaa 180  
agtactagat ggtgtataac tctagagttg aattttaagg gattccctaa tatgtatact 240  
atctttttat ctgaagtaat aaataaacia tgatcttg 278

<210> 292  
<211> 177  
<212> DNA  
<213> Homo sapiens

<400> 292  
ccttggcccg gtcattcttg tccagtttga taggttcagg aaattcggtg tacagctcca 60  
cctccgtttc ctgcttaagt gcattccgtg caatcgtctg gaacgcctgc tccacgttga 120  
tggcctcctt ggcactgggc tcaaagtagg gaatgttggt tttgctgtag caccagg 177

<210> 293  
<211> 403  
<212> DNA  
<213> Homo sapiens

<400> 293  
aaaaagaagg acttaggggtg tcgtttttcac atatgacaat gttgcattta tgatgcagtt 60  
tcaagtagca aaacggttgaa ttgatgatgc agttttcata tatcgagatg ttcgctcgtg 120  
cagtactgtt ggttaaatga caatttatgt ggattttgca tgtaatacac agtgagacac 180  
agtaatttta tctaaattac agtgcagttt agttaatcta ttaatactga ctcatgtgtc 240  
gccttttaaa ataaatgata tgttgaaaac ttaaggaagc aaatgctaca tatatgcaat 300  
ataaaatagt aatgtgatgc tgatgctgtt aaccaaaggg cagaataaat aagcaaaatg 360  
ccaaaagggg tcttaattga aatgaaaatt taattttgtt ttt 403

<210> 294

<211> 305  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 231, 236, 237, 242, 253, 265, 273, 299  
 <223> n = A,T,C or G

<400> 294  
 aaagcaatct ggcattggtgt cctgtagtga agcagaggat cataacataa gtaaactctc 60  
 tatgggtgga agttggagag aaggacattt tggctttgta catgaaaaga ctctccagat 120  
 agaaacagat tctgcccata agtgaaataa aatgccttgc gggggtaatg agtgacttat 180  
 agtattcagg cagatgttac ataactgcta attaaagtgc cctggattga ntttanncaa 240  
 anaattgaaa gtngattttg gtcangtgtc agnaaactac tgcctataaa cccatatcnt 300  
 accca 305

<210> 295  
 <211> 397  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 304, 315, 356  
 <223> n = A,T,C or G

<400> 295  
 cctatctggt tggccttttt gaagacacca acctgtgtgc tatccatgcc aaacgtgtaa 60  
 caattatgcc aaaagacatc cagctagcac gccgcatacg tggagaacgt gcttaagaat 120  
 ccactatgat gggaaacatt tcattcccaa aaaaaaaaaa aaaaaaaaaa ttctcttctt 180  
 cctgttattg gtagttctga acgttagata ttttttttcc atggggtcaa aaggtagcta 240  
 agtatatgat tgccgagtgg aaaaataggg gacagaaatc aggtattggc agtttttcca 300  
 tttncatttg tggnggaatt tttaataata atgcggagac gtaaagcatt aatgcnagtt 360  
 aaaaatgtttc agtgaacaag tttcagcggg tcaactt 397

<210> 296  
 <211> 447  
 <212> DNA  
 <213> Homo sapiens

<400> 296  
 ccattcctga tgttgaagtt gtcgtggggc ccgaagacgt tgggtggggat gacagcgggtg 60  
 aagggtgcagc cgtactgctg gaagtaggcc ctgttctgca cgtcgatcat cctcttggca 120  
 tacgagtacc caaaattgct gttgtgggga ggcccattgt ggatcatggt ctcatctatc 180  
 gggtagggtg tcttgtcagg gaagatacag gtggacaggc aggacaccac ctgacgggag 240  
 cccacctcga aggcagagtg caggacgttg tcgttcatgt gcacgttttt cctccagaag 300  
 tccaaaattgt atttgatatt ccggaacagg cccccacca ttgcagcaag atggatgacg 360  
 tgtgtgagtt ggaccttctc aaacagggcg cgggtctgtg ctgtatccgt gagatcggcg 420  
 tcttttagagg agacaaacac ccagtcc 447

<210> 297  
 <211> 681  
 <212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 426, 432, 634, 668

<223> n = A,T,C or G

<400> 297

```

aaataacagc atgtaaaata ttaaaataca agctttcaaa aataaataca taaataagta 60
gaaccctcgt aagaaatagt caaacacatt aagtcctttc cagctgtccc tagaaagctg 120
ctgtttctctt ttctattttc agctctggta agggcaggga ccaccctgca ggaagtgtca 180
atgatacgct gataagcttc ttactttctc cctgtcagtt ggtgctcccc ctgtgatgag 240
aaaagggtta ctgttgcagg tgctaaggaa ggctgctctt ctgtcactct gaagttgctt 300
ggagggatgt ccccatgcag actctctccc agccctccac tcagggaagg tctgtctgta 360
cccactgcct tctatagcag aaaacttgca ctctgaaatg cttttttttt ttttcaagaa 420
agaagnggct gnggactcaa ctagattctt ggtttgaaaa agccaaaaca tattgggtcac 480
tgattgtcac attgggttag aaatgtccat tcatgatctc ccttaagctg cacacaaccc 540
tatgaaataa ctaccattat ctaccctatt ttgctaaagc tcaaagagat taaataatgt 600
tgacagggat cttagccttg aactcactga aggnngttact gcaaagttct gctcttcacc 660
aagaaggntt acaggccaaa g                                     681

```

<210> 298

<211> 353

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 68, 72, 169, 182, 262, 263, 264, 269, 275, 335, 343

<223> n = A,T,C or G

<400> 298

```

cctggcttaa gaccagacat ttgaagaagg ctccaggcag ggaaaggaaa ggagaggcca 60
gccccacnct gnccctctcc tgccccacag tctccagcaa cacaaggcgg ccagtggacc 120
gtgaaccatt tatttccaaa ctataaagaa acctgctctc tgagaaaana cactgcccag 180
gngatgaagc tccagccctt ggaggtccaa aaccagtc aaactcagtc cctttagaaa 240
gctgctgtgc cttggaaatg annntcggnt gtcanagcct gggaagtgtt gggaagaacc 300
agcccactcc cctctcctgc tgcgattcca gcgcncgttg ggnccagatc tgg                                     353

```

<210> 299

<211> 560

<212> DNA

<213> Homo sapiens

<400> 299

```

aaagttcaag gactaacctt atttattttg gaaaggggag gaggaaggaa atgatatggt 60
accagacac tgggctaggc tgcaacttta tctcatttaa tactcccagc tgtcatgtga 120
gaaagaaaagc aggctaggca tgtgaaatca ctttcatgga ttattaatgg atttaagagg 180
gcatcaatca gctcaactca agatttcata atcattttta gtatttagat tgtgcctcaa 240
agttgtagta cctcacaata cctccactgg tttcctgttg taaaaacctt cagtgaagtt 300
gaccattgtg ctcttggctc ttgggctgga gtaccgtggt gagggagtaa aactagaag 360
tcttttagtac aaaactgctc tagggacacc tgggtgattcc tacacaagtg atgtttatat 420
ttctcataaa gagtcttccc tatcccaagg tcttcatgat gccagtagcc atatatgata 480
aattatgttc agtgataact tagttatcag aaatcagctc agtggctctc cccgccatga 540

```

ttcacatttg atgagttttt

560

<210> 300

<211> 165

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 120

<223> n = A,T,C or G

<400> 300

aaaaactaca taggggtgtg tgtgtgtgtg tatgtttatt ttatacacac atatttgtat 60  
attctaatat attactaagg caattttaat gaattacat gtatataaaa aaatatctgn 120  
cacttggcac acaggtttgt atgtatgtgt atatatatat gtatg 165

<210> 301

<211> 438

<212> DNA

<213> Homo sapiens

<400> 301

aaaatatatg tatttaaaaa caaaaagcaa cagtaatcta tgtgtttctg taacaaattg 60  
ggatctgtct tggcattaaa ccacatcatg gaccaaagt gccatactaa tgatgagcat 120  
ttagcacaat ttgagactga aatttagtac actatgttct aggtcagtct aacagtttgc 180  
ctgtgtatt tatagtaacc attttccttt ggactgttca agcaaaaaag gtaactaact 240  
gcttcatctc cttttgcgct tatttgaaa ttttagttat agtgtttaac tggcatggat 300  
taatagagtt ggagttttat ttttaagaaa aattcacaag ctaacttcca ctaatccatt 360  
atcctttatt ttattgaaat gtataattaa cttaactgaa gaaaagggtc ttcttgggag 420  
tatgttgtca taacattt 438

<210> 302

<211> 172

<212> DNA

<213> Homo sapiens

<400> 302

ccaaaacagg agtcctgggt gatatcatca tgagaccag ctgtgctcct ggatgggttt 60  
accacaagtc caattgctat ggttacttca ggaagctgag gaactggtct gatgccgagc 120  
tcgagtgtca gtcttacgga aacggagccc acctggcatc tatcctgagt tt 172

<210> 303

<211> 552

<212> DNA

<213> Homo sapiens

<400> 303

ccagcctgtt gcaggctgct tcgtageggg cgtcggtgc ggacttcct tcccgggtct 60  
ggatcttttc atcctaccag atgagaaagg gaatgagtga atggagtgc cccgcaccct 120  
gtcactttcc tgagacatga ctgccaggaa gaagagctgc tctggtctcc atcagggtctg 180  
gcaggacaaa ctgaccagtg agtcagtagg cagagttcac actgaaaaag ggcacaaggg 240  
ctgtcccaca atggggaggaa atggggtctc agaacttcta cttctctgaa aactaagaca 300  
caattgggac aaccaccacc cccgtgtgag atttctcacc tcgagacagg acaagatgaa 360

```
gttcaaggct ttttctgggg taaagacctt gaagagccca tcacaggcca acaaaatgaa 420
cctacaacac cagggagaaa tataaacggg ttttagggcc aaccaaaaaa taaaaaataa 480
aaaaagggcc tggagatgga gataaaataa atatttgtcc aactattcaa aggctaaggt 540
ttttttttct tt 552
```

```
<210> 304
<211> 601
<212> DNA
<213> Homo sapiens
```

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<400> 304
cctttgattc ttggtagtag attgcatgta aaatgtttat aagaagctac ttttccttca 60
tggaagaaa ttcccacatg agattcataa attcttagac tccgtggcctt ctttggtccg 120
gaatgcttaa actcatatga gtgttctgga tcccagtgtg tccaatcata attcacatta 180
tcaccttcac gaaccacata ctttgcccac ggtgaaatac gatacaagat ctctccgctt 240
ttactagtaa taactacctt taatttggat ccatgaggca cgagtacaga tttattctgc 300
tttggtggga tatacagctc ccattttcca taatccagtt ttttgtagtg gtacgaaaaat 360
ggattccaac cattaaaaatc tccagtaaga aaaactcctt ctgctcccg ggccattct 420
ttgcagtata aaccaccatc agcacatctg tggacgcaa atgattcata gcctctggaa 480
aacttatcaa taccaccttc attttctcca atgttcttca aaatttggct aaactgctta 540
tacctgcgct ggaagtccac ggcgtagggc ttcaagtacc ggtcgatctc caggagtctg 600
g 601
```

```
<210> 305
<211> 401
<212> DNA
<213> Homo sapiens
```

```
<400> 305
aaataacagc atgtaaaata ttaaaataca agctttcaaa aataaatata taaataagta 60
gaacctcgt aagaaatagt caaacacatt aagtccttcc cagctgtccc tagaaagctg 120
ctgttctctt tttcattttc agctctggta agggcaggga ccaccctgca ggaagtgtca 180
atgatacgct gataagcttc ttacttctct cctgtcagtt ggtgctcccc ctgtgatgag 240
aaaagggtta ctgttgacgg tgctaaggaa ggctgctctt ctgtcactct gaagttgctt 300
ggagggatgt ccccatgcag actctctccc agccctccac tcaggggaagg tctgtctgta 360
cccactgcct tctatagcag aaaacttgca ctctgaatg c 401
```

```
<210> 306
<211> 313
<212> DNA
<213> Homo sapiens
```

```
<400> 306
aaactgacta tggattcctt gaaggctctg cagttgttga tgatggcgat catgtactga 60
acgtagcagt gagggtgctg ccgattcctc aggtgctctt ctttatacag ctgcgcttca 120
tctttatatc tgaggacaga caggcttcgg tcagacagca ctaagggcaa catggagctg 180
tttcaaatgc cacgctgacg tcacgcctgg cctgaaattt cacatcacta acatctgacc 240
ggatgagcct ctaaaaataa aacaatcttt agacgatcca gactaatgga aggacagaga 300
ggttgattac ttt 313
```

```
<210> 307
<211> 366
<212> DNA
<213> Homo sapiens
```

<220>  
 <221> misc\_feature  
 <222> 11, 219, 232, 313, 321, 327, 342  
 <223> n = A,T,C or G

<400> 307  
 aaagatgctg ntaatgaaca ttacggacaa ttcatggtgt ggctagttgg taacacttca 60  
 gctgattttt cttatgagat ggaaaaaaaa aatcagccaa gtaagggcac atcttcactt 120  
 catttataag tcagcatcca aggtaaaaga attctctgtt ggacttgaca tcaactcccat 180  
 cctctgatac tcgcctactc tcttctcaaa gaagttagnt ctttccttcc antgaaatat 240  
 tctcataaaa gtcaaattggg ttctctactc tgaaaacctt gctaaaaccc aattccagca 300  
 taagtttgtc tgncaaaaac ncaatgnatt gcttcattaa antgcaattc atcccaatga 360  
 gcttcc 366

<210> 308  
 <211> 534  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 486, 529  
 <223> n = A,T,C or G

<400> 308  
 ccagctatca gctgatcgtc ttctgtctgg acgctcgtec tgcttctgac atcaaaatct 60  
 totgtctcaa agtcagagtc atccaactcc tcaggggtcc ttatcatcag cactgctttc 120  
 ctgatgtccc ggatgccatc atataccagg cggaagcat cgataaactc attctcatcc 180  
 atgggctggg cagggtccga gctgagggtc tccacggctg cttctacttg ctacagtaaaa 240  
 cgtggcatga ctgtgttgga gagcagctta gtggcttcca gaaccttctc tgtgtagact 300  
 cctggctcat agtcgtccat ctctgaggtg actacgtgaa tgaccgggac tgcccggcct 360  
 cgaattgcac cagctgtgog gccaggccat ccacatcctt ctcttgagga gcaatgacac 420  
 atttggtcac atcttccaaa atgtgattct ctgagacagc caagaagtca tcaatggaag 480  
 taatgncatc gacagcatct gtgagaacac cgacttggtt ttccattgnt cttt 534

<210> 309  
 <211> 164  
 <212> DNA  
 <213> Homo sapiens

<400> 309  
 catactcctt acaactattcc tcatcaccca actaaaaata ttaaacacaa actaccacct 60  
 acctccctca ccaaagccca taaaaataaa aaattataac aaaccctgag aaccaaagt 120  
 aacgaaaatc tgttcgcttc attcattgcc ccacaaatcc tagg 164

<210> 310  
 <211> 131  
 <212> DNA  
 <213> Homo sapiens

<400> 310  
 aaaaatcatt tatctttcgg tgcttcaaca tgatgccaaa caaaaatcta ctgaataaaa 60  
 atagcaagga aggggaatcaa acatttataa gatataatta ttatttttct gaccaaagt 120



caatgatttt t

131

<210> 311

<211> 626

<212> DNA

<213> Homo sapiens

<400> 311

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cctatgtgcg ccagtttcag gtcatcgaca accagaacct cctcttcgag ctctcctaca 60
agctggaggc aaacagtcag tgagagtgga ggctccagtc agacccgcca gatccttggg 120
cacctggcac tcaagcactt tgcacgatgt ctcaaccaac atctgacatc tttcccgtgg 180
agcaacttcc tgctccacgg gaaagaggtc gatggattta cccctggacc cataagtctg 240
ttcatcctgc tgaagtcccc tccccattgc tccttcaagc caaaactaca ctttgctggg 300
tccctgtcccc tctgagaaaag gggatagaaa gctccttcct ctatgtcctc ccacgcagat 360
ctgtttctggg gatggagctt ccaacttcct cttgcagcag gaaagaatgc tgctcaccct 420
totgtcttgc agagtgggat tgtgggaggg attggcagcc ttcttctcca ccacctgtcc 480
agcttcctcc tggtcagggc tgggaccccc aggaatatta tgttgccgtg tgtgtgtgtg 540
tgtgtgtgtg tcttctttta gggagcagga gtgcactctg taattgaggg tagatgttgt 600
gtgtgctggg gaggggtcct tctgtt 626
```

<210> 312

<211> 616

<212> DNA

<213> Homo sapiens

<400> 312

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aaaccaaaga aattaagaaa aaagacttca ttgcttgaat gacgcgaaca gctgtctgag 60
tcacctagac tttaacacca cctggggccc tgggaatgac gctgacgaga gatctgcaca 120
tagtaggcgt gggctccaaa tgtgctcatc agctgacttc acatcctcac aagtcagcct 180
cagatatgac ccaagggata cgtaccatct cttcttgaaa cagcgtgtca aattatata 240
atgtatgcaa aaaagagtaa tgtactaagc aaaccaagtt tcgtcttttt cttctgaatc 300
tggttttaat gtgacctgtc atccccatct ttgaattta tgagctccat cttctctaga 360
ctgttaactt cttgaggaaa acatgctatt ttaccacctt tcaactgctga atccctagcc 420
cttaagcaca gtctctggca cagaataaat acgaaatgaa tgagtgaatg aatggatgga 480
tgggtgaaga gaaaaggcaa tgcacaagat ttacctatca aaatccacca atggtcctta 540
aaaatggttt tgtcagtaga gatgctgaat atattcatat aatacattta tttcaatact 600
attaagaatt ctagtg 616
```

<210> 313

<211> 553

<212> DNA

<213> Homo sapiens

<400> 313

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aaaaaatggc agcattgtac ttgaatcaga aagcttactg ggatttcctc atcgaaagta 60
gagattgcag ctaatcctag taccttttgt tagtaattac ttaaggcaca gtgcaaagtt 120
gaaggactgt tttggtacaa actcaagcca gctacatgta tgcttgctt ggtatccttg 180
ctagagcaca tgcgggtata ataccgtatt atacacaaca aggccaccct gttgtatctg 240
tgttacaatt aaacatcagt ccagaaaagt gaaccctagt catttattat aggtgcccac 300
ctctgacttg gaacaaaatg ccaactccatt catgttcatt tttgtcctgg agaggattta 360
tttcctaaaa gattctgaaa gccaaacaaat caatgtagtt cttcatagag aacttaagag 420
taaggctcaa aatggcctca aatgggctt cttggatgac ttccaacagt gactggcctt 480
ctcaacactg cagatgtctg agcactacca taacctaacg aagtgaggaa ggaggaggca 540
aattggattt ttt 553
```

<210> 314  
 <211> 330  
 <212> DNA  
 <213> Homo sapiens

<400> 314  
 ccagcgactc cagcgggtggc agcagggcagt gcacgtactc tgggcctccc accagggtag 60  
 tgaaggttcc cagctgttct gccagggcca ggaggacctc atcttcatca tagatgggat 120  
 ctgtaaggaa aggcagaagc tcaacttcggg tcctttcaac cccaagggcc aaggcgatgg 180  
 tggacagctt cttgatgctg ttgaggcgaa gctgaacgtc ctcattgcgg agttcgtcta 240  
 tgagcaccgc gatggggtag agcgagtcgt cgccgtcggc cgccgccatc ttggctccgt 300  
 ccctttcctg tcagactgcg gccagcgctg 330

<210> 315  
 <211> 380  
 <212> DNA  
 <213> Homo sapiens

<400> 315  
 aaaaatgaca ttgcgttttag cttattgtaa gaggttgaac ttttgtatth tgtaactatc 60  
 ttttaagccct tcagtttata attcatataa aatgcctttt gtatttataa taatccctatt 120  
 ttaatcagtg catgaaattt gcttttttaa agttcatttg aatgattatt ccttccctct 180  
 aaagaaatga ttttggtaat gttgagaggt accttaccac aaatcctaac tgtaagtgtg 240  
 ttcattggtta ttttcaaaag aattatgact cttccccaag agaatcctaa aaaacttgta 300  
 ataaacctat aaagctgatt tgcataatth caaaattttg aatagcaaat ataggcaact 360  
 catatatgta tataatthtt 380

<210> 316  
 <211> 222  
 <212> DNA  
 <213> Homo sapiens

<400> 316  
 aaactacaga gggttttcca gctattatth ctttagttt ctaaaagtaa cgacttatat 60  
 taatgtttta taaaagatat tgatgaaaaa aaggtaatgc tgaaataaag gcgcttttag 120  
 aaatatttha ggacaacata aggtattaat attggaaaaa aactgtacat atthtcaagc 180  
 acaacactga aatattgcag cagtgtthaa ctgaattgtt tt 222

<210> 317  
 <211> 490  
 <212> DNA  
 <213> Homo sapiens

<400> 317  
 ctttgaatga gcgtggagag cgattaggcc gagcagagga gaagacagaa gacctgaaga 60  
 acagcgccca gcagtttgca gaaactgcgc acaagcttgc catgaagcac aaatgttgag 120  
 aaactgccta tcctgggtgac tcttcttaag agaaactgaa gagtttggtc agcagttttt 180  
 acaagaattc gggacctccg cttgcttctt tttttccaat atttgacac ttagagtggg 240  
 ttttgtttt tcttttcaga tgtaaatgtg aaagaaaggg tggtgcattt ttacatttcc 300  
 ctaatgatct tgctaataaa tgctacaata gcacggcctt catthtgggt ttttgctcc 360  
 tcccactgtg tgtatgtgtg tatatgtatg ttttgaatat gthttcttha ttaaaaaata 420  
 tttttgttag tttgaatatg aaatttgac caaatgataa actgcgctga gtctaaactg 480  
 gcaacatgta 490

<210> 318  
 <211> 340  
 <212> DNA  
 <213> Homo sapiens

<400> 318  
 cctggagtc aataaccacc cctcataacc acaccctgtg catacaccag ccaagccttt 60  
 cctgggtctgg gaagggaaga gaaaaaagac gcaggccacc tgggggttct gcagtctttg 120  
 gtcagtccag ctttctatct tagctgcctt tggcttccgc agtgtaaacc ttgcctgccc 180  
 ggaggcagga ggcccagctg gacctccgag ggccatgagc aggcagcagc catcttgccc 240  
 tcaagcttgc ctttcccttg agtccctctc tccctcggc tctagccaga ggtgtagcct 300  
 gcagatctag gaagagaaga gctggggagg aggatgaagg 340

<210> 319  
 <211> 373  
 <212> DNA  
 <213> Homo sapiens

<400> 319  
 aaagatgctg ttaatgaaca ttacggacaa ttcattggtg ggctagttgg taacacttca 60  
 gctgattttt cttatgagat ggaaaaaaaa atcagccaag taagggcaca tcttcagttc 120  
 atttagaagt cagcatccaa ggtaaaagaa ttctctgttg gacttgacat cactcccatc 180  
 ctctgatact cgcctactct cttctcaaag aagttagtct ttccttccag tgaaatattc 240  
 tccataaagt caaatgggtt ctctactctg aaaaccttgc taaaaccag ttccagcata 300  
 agtctgtctg ccacaaactc aatgtattgc ttcattagag tgcaattcat gccaatgagc 360  
 ttcacaggca agg 373

<210> 320  
 <211> 509  
 <212> DNA  
 <213> Homo sapiens

<400> 320  
 aaaaacaaaa ttaaattttc atttcaatta agaccctttt tggcattttg cttacttatt 60  
 ctgccctttg gttaacagca tcagcatcac attactattt tatattgcat atatgtagca 120  
 tttgcttctc taagttttca acatatcatt tatattttaa ggcagacact gagtcagtat 180  
 taatagatta actaaactgc actgtaattt agataaaatt actgtgtctc actgtgtatt 240  
 acatgcaaaa tccacataaa ttgtcattta accaacagta ctgcacgagc gaacatctcg 300  
 atatatgaaa actgcatcat caattcaacg ttttgggtact tgaaactgca tcataaatgc 360  
 aacattgtca tatgtgaaaa cgacacccta agtccttctt tttaaaaatg acattgcgtt 420  
 tagcttattg taagagggtg aacttttgta ttttgtaact atctttaagc tcttcagttt 480  
 ataattcata taaaatgcct tttgtattt 509

<210> 321  
 <211> 617  
 <212> DNA  
 <213> Homo sapiens

<400> 321  
 ccaaggcccc ttttgcagcc cacggctatg gtgccttcct gactctcagt atcctcgacc 60  
 gatactacac accgactatc tcacgtgaga gggcagtgga actccttagg aaatgtctgg 120  
 aggagctcca gaaacgcttc atcctgaatc tgccaacctt cagtgttcga atcattgaca 180  
 aaaatggcat ccatgacctg gataacattt ctttcccaa acagggtctc taacatcatg 240

```

tctctccctcc cacttgccag ggaacttttt tttgatgggc tcctttatatt ttttctactc 300
ttttcaggcg cactcttgat aaatgggttaa ttcagaataa aggtgactat ggatataatt 360
gagccctctg gtccagggtc cagtttacct aatattacct cagaaaggat atggagggaa 420
gatgatcttt ttgccaggtc tgacttttct tcctgctccg ccctccatta acgctcagta 480
cccttttagca gctgacggcc ccacgttcta ctccatgctt ggcttccttt ccaactagct 540
ctttcatata ttttacttgc tagtatctcc attctctcta aagtagtggt tcttttttgc 600
cttaaactta aattttt 617

```

```

<210> 322
<211> 403
<212> DNA
<213> Homo sapiens

```

```

<400> 322
aaaaagaagg acttaggggtg tcgtttttcac atatgacaat gttgcattta tgatgcagtt 60
tcaagtacca aaacgttgaa ttgatgatgc agttttcata tatcgagatg ttcgctcgtg 120
cagtactgtt ggttaaatga caatttatgt ggattttgca tgtaatacac agtgagacac 180
agtaatttta tctaaattac agtgcagttt agttaatcta ttaataactga ctcagtgtct 240
gccttttaaat ataaatgata tgttgaaaac ttaaggaagc aaatgctaca tatatgcaat 300
ataaaatagt aatgtgatgc tgatgctgtt aaccaaaggg cagaataaat aagcaaaatg 360
ccaaaagggg tcttaattga aatgaaaatt taattttgtt ttt 403

```

```

<210> 323
<211> 298
<212> DNA
<213> Homo sapiens

```

```

<400> 323
ccagaattag ggaatcagaa tcaaaccagt gtaaggcagt gctggctgcc attgcctggt 60
cacattgaaa ttgggtggctt cattctagat gtacgttggt cagatgtagc aggaaaatag 120
gaaaacctac catctcagtg agcaccagct gcctcccaaa ggaggggcag ccgtgcttat 180
atttttatgg ttacaatggc acaaaattat tatcaaccta actaaaacat tccttttctc 240
ttttttcctg aattatcatg gagttttcta attctctctt ttggaatgta gatttttt 298

```

```

<210> 324
<211> 78
<212> DNA
<213> Homo sapiens

```

```

<400> 324
ccatgggaag gtttaccagt agaatccttg ctaggttgat gtgggccata cattccttta 60
ataaaccatt gtgtacat 78

```

```

<210> 325
<211> 174
<212> DNA
<213> Homo sapiens

```

```

<400> 325
ccatcatggt caggaactcc gggaagtcaa tgggtccggt cccatctgca tccacctcat 60
tgatcatatc ctgcagctct gcttcagtggt ggttctgtcc cagggatctc atcactgtcc 120
ccaactcctt ggtggtgata gtgccatctc catccttgct aaagaggag aagg 174

```

```

<210> 326

```

<211> 679  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 83, 606  
 <223> n = A,T,C or G

<400> 326  
 aaaactgaaa tacctcttaa aataatttga tccccagcgt ttgctctttt tgaagtaacc 60  
 aacttactct taaaaaggat ggntgccaaag atggaaaagtc ttactgggtt ttcattgttaa 120  
 cctattcttt ggacataact atgaattttg tatacaatgc acttcatgaa aagttgtggc 180  
 tccccagat tgcccacaag tgtgatcttg aagtcctaaa catttgtcca tgtaagcttc 240  
 aaaacagcgt taactgagtt attcaagtag cagtacttaa agatacaatt cttgaagcag 300  
 tttcaatggg ttctgatcca aataatcagt ttctgaacat tactacttca cataatagag 360  
 tccatcttca gtttcttctc actttctctt tcccttttgg gtttctttt tgtggcctga 420  
 ggccaccagt tctttgggta ctatcaagat acttccatca tgggtacact ggagagcata 480  
 gtggttgga ttgactggcc taccttggtc atctcttaat ctactaaaaa tatcatgata 540  
 aaggatcatgc agtttctgtt tcattatgtt aatagctttg gtacattgtg cttgctctct 600  
 cttaanagtt tcttctttg cttgcaagtt acatacatca tcttctaaat tcaaaattat 660  
 gtccattttg gcgtttacc 679

<210> 327  
 <211> 619  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 137, 490, 493  
 <223> n = A,T,C or G

<400> 327  
 aaaataagtt actggtaaat ggagttgcat tctatagtc cttataaat attaacaaaa 60  
 tatttataac tggaacctta atgaaatgta tcatcaaact aggtaaaagc aacttgctcg 120  
 cagttaccaa agcctanata cgcgttagat gcgccttttc cggcctgtgc gtctgctctg 180  
 gttcctctca ggcagcaaag ctggggaagg aagctcaggc aggagcctcc ccgacgccac 240  
 aacggcaciaa gcagcagcta aagcaccgca ctttgctcta ctaacctttt acttaaatga 300  
 ggttttgcca aatccacatc tggaaaccgcg tcacacccat ttgcaaggat gtttgttctt 360  
 tgatgaaact gcatctctac tgcacatgag ggctttcatt gtaggacaag aggagagttc 420  
 gtttattttt gtaactgttt tacatgttcc gattagttaa tcggtagctt atgtcatttg 480  
 ctatgcctgn agnotttetaa tctctcctta ctaaaacatt acttcaaatt tgaattgacc 540  
 cttggttata atttatttag ccgggatttg tgtgtcattg tagagcaact ctaattcaag 600  
 aatagtgaac acttttaag 619

<210> 328  
 <211> 132  
 <212> DNA  
 <213> Homo sapiens

<400> 328  
 aaatccaaat acaaaagcat agtctctgca agattttgtt ctttgaattt cttgatattg 60  
 taattgatta ttgataactg tcatcatgaa attatctctc aataataaga taaataaact 120

agcatatgaa tc

132

&lt;210&gt; 329

&lt;211&gt; 854

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 801, 840, 841, 849

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 329

```

ccttgaggta actattgcaa aatatacagt gtaagttcag tctgatggaa accccagatt 60
catcaaggat acaaatctac agtagcccaa tggcggtttc atagtgtata atttattatc 120
aataaaatta actccgttac aatcagcatt catttcctcc aattaaaatt aagcataaac 180
cctaggtagt aacottctgc acatatgtat agctccgaat ttctcactg ttcgtctggt 240
gcaaaaacaa tattcaagct tgtctgatta tgcataTTTT ctttaatcat atagattata 300
tatacaatag acaagacagg actatataga taatggacag acttaaatgc ccgcattttt 360
aaggtggaga aaatgatgaa tctatgcac cccgagaaca cttaaaattt ttttttattt 420
cactgggaaa ttcttacagc tactttacaa tcataggtta acagcctagt tatacagaag 480
acataattcca ctacagagct atactctatg caactgtttt ttccctcat aaacaacctg 540
agttcaaat gaattctatc ttccacaatc acaatgggtg catcaccag tacacagaag 600
tttgaatcac aaaacataat taccacaata aaacacagt ttcaagtatc ttggcagagc 660
aatctgccgc acaaactgca aattaaatta actacacaga ctaaaaacta tacagcctac 720
catcacagtt gtgcattata aaaaaggag tttctttcct ttggttttaa gtcaggaaca 780
gggtaggatt ttttaccctc nggccgggga ccacgctaaa ggggcgaaat ttcttgccan 840
natattccnt tcac                                     854

```

&lt;210&gt; 330

&lt;211&gt; 299

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 330

```

ccaatgaata actgacttta taatcctggg caatcagctt ttggcgggtt gtaagtgtt 60
ctcgacactt ttcactcatg gattcttcaa atttatggtt aaagaggcac ttatacactc 120
tgccctcacc agcttgtgta ttttcacaaa aacgctcccg atcatctcgg caagcaaat 180
ataaatgccg gtctaagtga aagtcatccg atgacagctc agccaccgg agaatggctt 240
tcttgccagag ttcagaaact tgaatcttgg gttctctttc ttctgcttct ttcaccagg 299

```

&lt;210&gt; 331

&lt;211&gt; 573

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 331

```

aaagatatga acagcttaat tttccgtgtg attatctaata taaaaaagaa aaacaaaaca 60
agcaaatgt tcaagttaaa aaaaaaacat accgggtgag caatgcacta aaattatcca 120
catgaaaaca aatggtctgt aatcttataa accaacaatag catttactg tcaacaatgt 180
gaaaatttaa tatcttctca aacaggcata agatgaagaa gtgctatttt ttaattgtaa 240
aagggaactta tgtaattgtaa aattacatta taatttttca ttccgaattg acaaatgatt 300
tcaaaaacaa ggatcaaagt ttgactgcaa atagtaaatgc aatataattt cataaaaatc 360
cttcaatttc tatttttttc cttttctgta gttgacatat gaagaccact tcaatttcta 420

```

```

aaaaagggaa ccattccaat tttccctccc caagaaaatg tctcacaatt acaaagtaga 480
aaaacagccg ttcataaatg caaaaaaatt ctgatttata tatgaaataa tttctagatc 540
aattcaacat atttgatgac atttggtgag ttt                                     573

```

```

<210> 332
<211> 555
<212> DNA
<213> Homo sapiens

```

```

<400> 332
aaatttgaaa gttgtaagca ctgatgttaa tgtgattgat cagcatgggc atatgtaaaa 60
tgtccttttc tggttgcctc tctatgctat tgtgttcaga tacttacacc ataattaaac 120
agtaagttat agacttgctg agtttggcat agatagtgcg ctcatttaat ctgtgcctct 180
caaaacttca gaatttagc atattaccac aaataatttt tggtgaaact attgagatat 240
taaaattttt gaaatcacta ctgttacctg ttatagaaaa tagtgttggc ttagtctagt 300
ctctgtgtaa ctggttacat tttgatggtt gtctatactc aactggatat gtgtatgtaa 360
attagaaaat acatacctat ccagacataa atgctaagta acattttttt ctccctccaa 420
ctacataatt tgtagctcat cttttttcct taatcctttc ctaacttgtc gcagcagttt 480
gaatttccca gatatttatg tttgaacata atggctcaga atacatatat gaacatcata 540
gttgatatata ttttt                                     555

```

```

<210> 333
<211> 460
<212> DNA
<213> Homo sapiens

```

```

<400> 333
aaatttcttt caacagtcta ttgggggtcca aaaagcatat atcaaaacaa aaataacaaa 60
agcaaaacaa aatgctacat gtaaaagcta aagaaagaaa atgcagcata ttcaggttct 120
ttttcttgag gtacctatat aaatttaatc acctgcccc aagtcctctc gttagggttaa 180
aaacacaatg cgtcctgggg agccaattgc ccggcacgtc ttattactga gaaagtgcaa 240
gaatgctgat catcttatgc agcatactaa aggatgattt actctttaca aaatagagct 300
taagtatcaa cctgatggaa gttagaaaat taaaaacatt taagtagaat catctctctc 360
tctatttttg agatcctgca gcaaaaagcc tcccaaatca actttcaaag ttctgccatt 420
aagggaatgtt ggttctcttg taaaattcag agatctcttt                                     460

```

```

<210> 334
<211> 190
<212> DNA
<213> Homo sapiens

```

```

<400> 334
ccaaggaagg ctgtgctcta gccatcttga cctgtctctg aaaccacctg ggggacaagg 60
ctgatagaga cctgtgcaga tgtctctctc tgtgcccctc actcatctca ctggatctgt 120
ctgccaaccc tgagatcagc tgtgccagct tggaagagct cctgtccacc ctccaaaagc 180
ggccccaagg                                     190

```

```

<210> 335
<211> 394
<212> DNA
<213> Homo sapiens

```

```

<400> 335
aaatttggac agacttctag cggacagtta cttctcaaga attttctata caaaagctgt 60

```





<400> 339  
 ccttccctcc ccaccacat caacctcttc aaaacctact ccctccctct aagtatctct 60  
 caacacagta tgtctggggc tagatttcaa aaccacgta atgaaaaagt cagttttaca 120  
 agcctaattt tgttgTTTTT ttttttatat caattaacgt taaaaattgc atcaactatt 180  
 taattcatga ggatctttca tattaataatt taaccttaag attcaaccgc catgtgcttt 240  
 tataaaggaa acatttttta gagacgtctg agctcacttt tacatggtgg tgcctactgc 300  
 cgttaatggt tgtgatttt 319

<210> 340  
 <211> 278  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 30, 31, 44, 58, 70, 71, 106, 140, 148, 156, 164, 171, 174,  
 180, 187, 190, 196, 219  
 <223> n = A,T,C or G

<400> 340  
 ctaataaaat gaattaacca ctcatcatn natctacca ccnatcaa catctccnca 60  
 tgatgaaacn ncggtcact ccttgggcgc tgctgatcc tccaantcac cacaggacta 120  
 ttcttagcca tgcactactn accagacncc tcaacngcct ttnatcaat nggncacatn 180  
 actcganacn taaatnatgg ctgaatcatc cgctacctnc acgccaatgg cagcctcaat 240  
 attctttatg ctgcctcttc ctacacatgc gggcgagg 278

<210> 341  
 <211> 400  
 <212> DNA  
 <213> Homo sapiens

<400> 341  
 ccagcatggg gctgcagctg aacctcacct atgagaggaa ggacaacacg acggtgacaa 60  
 ggctttctaa catcaacccc aacaagacct cggccagcgg gagctgcggc gccacctgg 120  
 tgactctgga gctgcacagc gagggcacca ccgtcctgct cttccagttc gggatgaatg 180  
 caagttctag ccggtttttc ctacaaggaa ttcagttgaa tacaattctt cctgacgcca 240  
 gagaccctgc ctttaaagct gccaacggct ccctgcgagc gctgcaggcc acagtcggca 300  
 attcctacaa gtgcaacgcg gaggagcacg tccgtgtcac gaaggcgttt tcagtcaata 360  
 tattcaaaagt gtgggtccag gctttcaagg tggaagggtg 400

<210> 342  
 <211> 536  
 <212> DNA  
 <213> Homo sapiens

<400> 342  
 aaagaacaat gggaaaaaca agtccgtggt ctacacagatg ctgtcgatga cttacttcc 60  
 attgatgact tcttggtgtg ctacagagaat cacatttttg aagatgtgaa caaatgtgtc 120  
 attgctctcc aagagaagga tgtggatggc ctggaccgca cagctggtgc aattcgaggc 180  
 cgggcagccc gggtcattca cgtagtcacc tcagagatgg acaactatga gccaggagtc 240  
 tacacagaga aggttctgga agccactaag ctgctctcca acacagtcac gccacgtttt 300  
 actgagcaag tagaagcagc cgtggaagcc ctacagctcg accctgccc gccatggat 360  
 gagaatgagt ttatcgatgc ttcccgctg gtatatgatg gcatccggga catcaggaaa 420

```
gcagtgtctga tgataaggac ccctgaggag ttggatgact ctgactttga gacagaagat 480
tttgatgtca gaagcaggac gagcgtccag acagaagacg atcagctgat agctgg 536
```

```
<210> 343
<211> 646
<212> DNA
<213> Homo sapiens
```

```
<400> 343
aaaactttcta ttcataaaaa gacataaaga aaacagtcaa gccacagact aggtgtaata 60
tctcaatata tatatccgac aagagaattg catctagaat gtataaagaa tttctatgac 120
ccaattatag ctatcaggga tatacaaatt aaaacaaaaa tgaaacatca ctacacaccg 180
attggaatgg ttaaaaagga aaaatactga caacaccaat atttgtaaag acaggaggta 240
ccagaactct cattcattat attcataaat tgacaaatat aaaaactgct atagtagggc 300
agtcttcctt agaaagggat tgtgggcatg acagagaaca atattaatct gtccattata 360
ttccttaact gtaaaatgga gaccatatgt tccaccagct tcacttggtg attatgatac 420
atggctatta agagactcaa atgactccat ttcatacaact aatatgccct gtcaattcta 480
cttctaaagt atcccatgtt ctatccaatg tcataccact atcataatgt aagtgttcat 540
aactctctat aatattttcaa taatctaact ggtctcaatg cctgtagtag aaattgcaga 600
ttgggctccc caattttctgt tccctaggaa ggctgagaaa gctttt 646
```

```
<210> 344
<211> 383
<212> DNA
<213> Homo sapiens
```

```
<400> 344
cctgcacccc agtataaggag cctccccagc tgagtaagaa gctgcttccc ctctctctcat 60
aggccaagcc tatttgtgtga aaccatctca tggctcttgt gacgtagacc atttttgaaa 120
ccgtctcatg gtcttggtga cgtagaccgt ttgcttcttt aactccagcc gcggaatgac 180
attagtggaa cggggttagg gaactgctgg aagttcagga tgccaccacc ttgaacacct 240
aggccaggga tccccaccat gtcccggtt tctttcttcg agagtataga accgttcatt 300
cttgctttgt gtccatttcc atctcttgaa aaaatgtagt ctttgaatgt gtgaaaatct 360
agggacattc aatctagtct ttt 383
```

```
<210> 345
<211> 263
<212> DNA
<213> Homo sapiens
```

```
<400> 345
cctccccctt ccctttgtgt gtgggaggag ctctgtgtgt ccttggccgc ttactggaag 60
ggcgtttttc agagctgcag ggacagggtg agcagctgaa gggctaggag ggaagccggc 120
ccccgctctg cagaagctgc atttcagctg aatctgtgtt tcagcctcag ttggttgac 180
cgtagcccc tctcctccc gatggctcatg tttttgtcac attagagaat aaacagccac 240
acacacattt ttttttttcc ttt 263
```

```
<210> 346
<211> 132
<212> DNA
<213> Homo sapiens
```

```
<400> 346
aaatccaaat acaaaagcat agtctctgca agattttgtt ctttgaattt cttgatattg 60
```

taatttgatta ttgataactg tcatcatgaa attatctctc aataataaga taaataaact 120  
agcatatgaa tc 132

<210> 347  
<211> 564  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 484  
<223> n = A,T,C or G

<400> 347  
cctgggtatc cagggaggct ctgcagccct gctgaagggc cctaactaga gttctagagt 60  
ttctgattct gtttctcagt agtcctttta gaggcttgct atacttggtc tgcttcaagg 120  
aggctcgacct tctaattgat gaagaatggg atgcatttga tctcaagacc aaagacagat 180  
gtcagtgggc tgctctggcc ctggtgtgca cggctgtggc agctgttgat gccagtgtcc 240  
tctaactcat gctgtccttg tgattaaaca cctctatctc ccttggaat aagcacatac 300  
aggcttaagc tctaagatag ataggtgttt gtccctttac catcgagcta cttcccataa 360  
taaccacttt gcatccaaca ctcttcaccc acctcccata cgcaagggga tgtggatact 420  
tggcccaaag taactggtgg taggaatctt agaaacaaga ccacttatac tgtctgtctg 480  
aggnagaaga taacagcagc atctcgacca gcctctgcct taaaggaaat ctttattaat 540  
cacgtatggt tcacaagata attc 564

<210> 348  
<211> 321  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 3, 12, 23, 70, 80, 89, 101, 123, 131, 151, 168, 177, 185,  
212, 220, 222, 233, 253, 255, 263, 264, 286, 287, 300, 302,  
315  
<223> n = A,T,C or G

<400> 348  
gcncatgaac anggagcaac ganaagagat gtcgggctaa gggcccggga cgggcggcac 60  
ccatcctgcn acggaacacn ttcgggttnt ggttttgatt ngttcacctc tgtttatatg 120  
canctatttg ntocctcctcc cccaccccag nccccactt catgcttntc ttccgcncctc 180  
agccnccctg ccctgtcctc gcggtgagtc antgaccacn gnttccctg cangagccgc 240  
cgggcgtgag acnngaccc tcnntgcata caccaggccg ggcccnngct ggctccccc 300  
gnggccctgt gaaanagctg g 321

<210> 349  
<211> 255  
<212> DNA  
<213> Homo sapiens

<400> 349  
ccatgacagt gaaggggctg ttaggaatat caacaccacc gaagcgcaca tagatcacat 60  
atgtgcccgg cttggcagct gtgtagaaga tgtcataggt tccatcttca ttctcaatga 120  
catcggcctc ggcctcagtg ccatctgggg tcagaaccgt gcaggtcact ttacccttcc 180

```
cggcagtctt ggcatacaacc acaaagccta cttcttcgcc agttttcaca gtggaggcga 240
ttccaggacc cgtag 255
```

```
<210> 350
<211> 496
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 10, 27, 96, 110, 112, 309, 360, 447, 455
<223> n = A,T,C or G
```

```
<400> 350
gggcttattn gctcacaata tcattcnctt ttggaactat ggccaattga agctacacac 60
tgaatttatt aatacagcat taagtttctt tgtgtnaaaa aatctttgtn cncagtaata 120
aaaaaagata aggcaagatg cattaacat gaaaccttct ggctcttttc ctctgcgttt 180
ttacagagcc actgatgact atctgcaaca aaagagttta gtttctgatt ttccgtatca 240
agcatcttat gccttttgctg tggtaagaat tctggccaag caccctgaag gacagatgct 300
ggatgatgnc tttggcactt atgctggcaa actgagcttc tttcccttga gtacttttgn 360
aatgtacaag tagaagaagt cacaagtata ggatggctctg gactacgccg gccaccacag 420
caatgagggtc aaagaagccc tcaaagnaga agcgnccaga tccagttgac aagatacaaa 480
gcacgataga ggccca 496
```

```
<210> 351
<211> 109
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 49
<223> n = A,T,C or G
```

```
<400> 351
ccatagtga gcttggaat gactgttact gcagcatctg ggctgccanc cacagggaag 60
ggccaagccc catgtagccc cagtcactct gccagcccc gcctcctgg 109
```

```
<210> 352
<211> 384
<212> DNA
<213> Homo sapiens
```

```
<400> 352
ccttcgagag tgacctggct gccaccagg accgtgtgga gcagattgcc gccatcgcac 60
aggagctcaa tgagctggac tattatgact caccagtggt caacgcccgt tgccaaaaga 120
tctgtgacca gtggggacaat ctggggggccc taactcagaa gcgaaggga gctctggagc 180
ggaccgagaa actgctggag accattgacc agctgtactt ggagtatgcc aagcgggctg 240
cacccttcaa caactggatg gagggggcca tggaggacct gcaggacacc ttcatgtgtc 300
acaccattga ggagatccag ggactgacca cagcccatga gcagttcaag gccaccctcc 360
ctgatgccga caaggagcgc ctgg 384
```

```
<210> 353
<211> 345
```

<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 19, 41, 59, 110, 124, 131, 230, 231, 239, 245, 247, 273,  
280, 284, 285, 296, 303, 325, 343  
<223> n = A,T,C or G

<400> 353  
ccttggtcag gatgaagtng gctgacacac cttagcttgg ntttgcttat tcaaaagana 60  
aaataactac acatggaaat gaaactagct gaagcctttt cttgttttan caactgaaaa 120  
ttgnacttgg ncacttttgt gcttgaggag gccatttttc tgcctggcag ggggcaggta 180  
tgtgccctcc cgctgactcc tgtgtgtgcc tgagggtgcat ttctgttgn ncacacaang 240  
gccangntcc attctccctc ccttttcacc agngccacan cctnntctgg aaaaangacc 300  
agnggtcccg gaggaaccga tttgngctct gcttgacag canag 345

<210> 354  
<211> 712  
<212> DNA  
<213> Homo sapiens

<400> 354  
ccatctacaa tagcatcaat ggtgccatca cccagttctc ttgcaacatc tcccacctca 60  
gcagcctgat cgctcagcta gaagagaagc agcagcagcc caccaggagg ctccctgcagg 120  
acattgggga cacattgagc agggctgaaa gaatcaggat tcttgaacct tggatcacac 180  
ctccagattt gcaagagaaa atccacattt ttgcccacaa atgtctattt ttgacggaga 240  
gtctaaagca gttcacagaa aaaatgcagt cagatatgga gaaaatccaa gaattaagag 300  
aggctcagtt atactcagtg gacgtgactc tggaccaga cacggcctac cccagcctga 360  
tctctctga taatctgcgg caagtgcggg acagttacct ccaacaggac ctgcctgaca 420  
accccgagag gttcaatctg tttccctgtg tcttgggctc tccatgcttc atcgccggga 480  
gacattattg ggaggtagag gtgggagata aagccaagtg gaccataggt gtctgtgaag 540  
actcagtgtg cagaaaagggt ggagtaacct cagccccca gaatggattc tgggcagtgt 600  
ctttgtggta tgggaaagaa tattgggctc ttacctcca atgactgccc taccctgcg 660  
gaccccgctc cagcgggtgg gggattttct tgactatga tgctggggga gg 712

<210> 355  
<211> 385  
<212> DNA  
<213> Homo sapiens

<400> 355  
cctcatagcc gcttagcaca gttacagaat gtctgaaggg gacagtgtgg gagaatccgt 60  
ccatgggaaa ccttcgggtg tgtacagatt tttcacaaga cttggacaga tttatcagtc 120  
ctggctagac aagtccacac cctacacggc tgtgcgatgg gtcgtgacac tgggcctgag 180  
ctttgtctac atgattcagag tttacctgct gcagggttgg tacattgtga cctatgcctt 240  
ggggatctac catctaaatc ttttcatagc ttttctttct cccaaagtgg atccttcctt 300  
aatgggaagac tcagatgacg gtccttcgct acccaccaaa cagaacgagg aattccgccc 360  
cttcattcga aggctcccag agttt 385

<210> 356  
<211> 347  
<212> DNA  
<213> Homo sapiens

<400> 356

```

aaatgagata aagaaagtct ccttttggtt ttagatggaa aagaaagcac aagttttttc 60
tacctgtgaa tgaactttgg tgacctatat gtgccattca tgcagcattt ttgttcatat 120
tggcttagaa ttcagtgcac gaatatcatt acattcttat atctaacatt cctagttagc 180
tttgattcaa aatatacaaa atctgataca tgaatacttt gctagattaa tgacttgatc 240
atctttggaa tgagtaggca agacgatttt tacctattat ttctatgttg tgggtaatgt 300
taaaactaaa tacagatgat aataattgct atttcacagt gatgttt 347

```

<210> 357

<211> 313

<212> DNA

<213> Homo sapiens

<400> 357

```

aaagtaatca acctctctgt ccttccatta gtctggatcg tctaaagatt gttttatatt 60
tagaggctca tccggtcaga tgtagtgat gtgaaatttc aggccaggcg tgacgtcagc 120
gtggcatttg aaacagctcc atgttgccct tagtgctgtc tgaccgaagc ctgtctgtcc 180
tcagatataa agatgaagcg cagctgtata aagaagagca cctgaggaat cggcagcacc 240
ctcactgcta cgttcagtag atgatcgcca tcatcaacaa ctgccagacc ttcaaggaat 300
ccatagtcag ttt 313

```

<210> 358

<211> 403

<212> DNA

<213> Homo sapiens

<400> 358

```

aaaaagaagg acttaggggtg tcgttttcac atatgacaat gttgcattta tgatgcagtt 60
tcaagtacca aaacggttgaa ttgatgatgc agttttcata tatcgagatg ttcgctcgtg 120
cagtactgtt gggttaaata caatttatgt ggattttgca tgtaatacac agtgagacac 180
agtaatttta tctaaattac agtgcagttt agttaatcta ttaatactga ctcagtgtct 240
gccttttaaa ataaatgata tggtgaaaac ttaaggaagc aaatgctaca tatatgcaat 300
ataaaatagt aatgtgatgc tgatgctgtt aaccaaaggg cagaataaat aagcaaaatg 360
ccaaaagggg tcttaattga aatgaaaatt taattttgtt ttt 403

```

<210> 359

<211> 411

<212> DNA

<213> Homo sapiens

<400> 359

```

aaataaatac ttagaacacg acttggtctc tacaagcatc tggactctag gtctcagtag 60
tggagtgtct caccatggg cccacgcag ggacgccacg gttccctccc accccgtgat 120
caagacacgg aatcggtcgc cgatggttgg atcgcaatgc gccccttttc tagagccttc 180
cccgccatc tacaggcagg atcggtctgg gaaaaagaca actggaattt ctogaagggt 240
gatgggtccgc acggttgagg attctacgtg gttctcttgg ttcccctggt gtgtgtgtgt 300
gtggaggagg ccggtggcct tagatcacct tcttgagctc gtcgtacagg accagcacga 360
aggcgccccc catgccccgc aggacgttgg accacgcacc cttgaagaag g 411

```

<210> 360

<211> 378

<212> DNA

<213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 276, 328  
 <223> n = A,T,C or G

<400> 360  
 cctcttcagg ggcccagacc agggacaggg ccttggtttc cttctccctg gcttctgcct 60  
 cagctctgtc cctctcatcc gcgtatttgg aagagatgtt tttctcctcg gctaacaact 120  
 gatcaaattt cctctgcttc ttttccaggt tggacacgag ttgccgctgg ttgtccaaat 180  
 caacaaccag gtcgtccagc tcctgctgaa gcctgttctt ggtcttttcc agtttatcat 240  
 aagcggccgc cttctcctcg tactgctggg tgaggntctc gatctccttc tggaacctct 300  
 tcttccctc ttccagagct tccacggngc tggcaaagtc ctgcagcttc ttcttcgagt 360  
 cggagagctg gatgttga 378

<210> 361  
 <211> 372  
 <212> DNA  
 <213> Homo sapiens

<400> 361  
 aaatactggg ggccattaag agtggatgta gctaagagct tagctaacat tgccttttca 60  
 ctctattttt ctccagatatt gtaagcattc tgtttttcaa tattgtagtt aattttttgg 120  
 ctttcaacag cagccctagt aatgggtggg ttgttaatta atgtgtatat tgtactgaat 180  
 ttctgtcagt taaggggttc actgctttgg tggaaattgg tggaaattgc tagcagggtc 240  
 cacgatgttt atttttttct ccatgtttgta tatcattacc atttcacata cgcgttttcta 300  
 tttttcttcc tctcctcctg atctccttaa aaatgaatct agagttgggtg gctttttccc 360  
 cctcctcttt gg 372

<210> 362  
 <211> 544  
 <212> DNA  
 <213> Homo sapiens

<400> 362  
 cctgagtcac ctagcatagg gttgcagcaa gccctggatt cagagtgtta aacagaggct 60  
 tgcctctctc aggacaacag ttccaattcc aaggagccta cctgaggtcc ctactctcac 120  
 tgggggtccc aggatgaaaa cgacaatgtg cttttttatt attatttatt tgggtggcct 180  
 gtgttattta agagatcaaa tgtataacca cctagctctt ttcacctgac ttagtaataa 240  
 ctcatactaa ctgggtttgga tgcctgggtt gtgacttcta ctgaccgcta gataaacgtg 300  
 tgcctgtccc ccagggtgggtg ggaataattt acaatctgtc caaccagaaa agaattgtgtg 360  
 tgtttgagca gcattgacac atatctactt tgataagaga cttcctgatt ctctaggtcg 420  
 gttcgtgggt atcccattgt ggaaattcat cttgaatccc attgtcctat agtcctagca 480  
 ataagagaaa tttcctcaag tttccatgtg cggttctcct agctgcagca atactttgac 540  
 attt 544

<210> 363  
 <211> 328  
 <212> DNA  
 <213> Homo sapiens

<400> 363  
 aaactgggta tgacaaaagc ctttagttgt gtttcttgaa ctataaagaa aacaaatttt 60  
 ggcagtcttt aagtatatat agcttaaaat ataattttta gcatttggca ccataatgtat 120

```
gccattatat ttgattttgc attactgttt cacaatgaag ctttctttaa ggctttgatt 180
tttatgatta tgaaagaaat aaggcacaac cacagttttt ctttcttaaa ttatcatcact 240
gttgatgtgg ttctttttgtg ttaaaaaaaaa aaagtgcacac tatcaaaact aaaaaattat 300
agagtaatat tgccgttctg ctgatttt 328
```

```
<210> 364
<211> 569
<212> DNA
<213> Homo sapiens
```

```
<400> 364
cctgggcacc tctttgcttg aaatatggca agacttgga aaatgtttgc ccttagaatc 60
tatctcacta ctttagttag ttgtctcctt tgggcctggg cacagtcttg gccctgatct 120
ggaacagact cccttttcta aaactgaact tgaccacatc aaaagtgtgt aaaacaatct 180
ccatggtaat taaacttgca ttcaacacca tatggtaaca gaagatggca aaggataaga 240
ttcagatctt agatctttcc aagtagggca tgtagatga tagaaggatt agttgcaagc 300
tggatctgag ctcaggcttg ggcataagg aaactgtctc ccatgtggtt tggaagagtt 360
aggggctccc tgagctctat tgtgaactat acgggtttca tccaaggaat ggtatgatgt 420
gggcataaaa ccattcttca gacaactgaa gatggtcccc ttctgtagcc agaaacacta 480
gctgtcctgc attgtccatt tccttttagcc ccaggcggtc ctgtgtgtac agggaggtct 540
cctgtaaggg aatggtttcc ttggcttgg 569
```

```
<210> 365
<211> 151
<212> DNA
<213> Homo sapiens
```

```
<400> 365
aaaaaaaaaa atccttttat tatggaatgt gtcaaacaca cacacaagca taacaaaccc 60
ctaggtagccc atctccaagt tttagaccct attataatgt catcttcagt gttttattat 120
ccacttcttc tctctctatc ttttagtatt t 151
```

```
<210> 366
<211> 508
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 43, 99, 132, 136, 138, 142, 180, 204, 208, 228, 233, 249,
293, 307, 309, 347, 358, 374, 401, 434, 436, 440, 442, 463
<223> n = A,T,C or G
```

```
<400> 366
agtataaaga tatattccat aaaagagttt ggcagtcaaa ganaagcatc gcacttccga 60
aaaacacaag cattcttctc ctagtctaca gagaattgng taaaaaaaaa aaaaaatcat 120
catcaacagc cncantnta cncacacta gaatgtacac tccggcaagt aaattaaggn 180
tgaggtccat ccctgaacga tganaagngg tctgagctat ggcaaaagnt tanaaagtag 240
cccagctana caaatgcccc agctatcccc aggggagtta ttcagtactt aanacttcat 300
ttccaananc agccccggaa aagccctgac aggaaggggg gaccagngat caccgatntc 360
ccattagggg cggnccacca aaacaaaatg cctggagctt ntgagcagct gcagcctggg 420
gttggtggcta ggcnngggg gnggttgcaa aaaaacggct gtntccgggg agaggcaaat 480
ggcaggccag ccagccctgg gtacatgg 508
```



<210> 367  
 <211> 382  
 <212> DNA  
 <213> Homo sapiens

<400> 367  
 cctgagcggc tagtctttaa gatgcgcttc tatcgtttgc tgcaaatccg agcagaagcc 60  
 ctccctggcgg caggcagcca tgtgatcatt ctgggtgacc tgaatacagc ccaccgcccc 120  
 attgaccact gggatgcagt caacctggaa tgctttgaag aggaccagc gcgcaagtgg 180  
 atggacagct tgcacagtaa cttgggggtgc cagtctgcct ctcatgtagg gcccttcac 240  
 gatagctacc gctgcttcca accaaagcag gagggggcct tcacctgctg gtcagcagtc 300  
 actggcgccc gccatctcaa ctatggctcc cggcttgact atgtgctggg ggacaggacc 360  
 ctggtcatag acacctttca gg 382

<210> 368  
 <211> 174  
 <212> DNA  
 <213> Homo sapiens

<400> 368  
 ccttctccct ctttgacaag gatggagatg gcactatcac caccaaggag ttggggacag 60  
 tgatgagatc cctgggacag aacccactg aagcagagct gcaggatatg atcaatgagg 120  
 tggatgcaga tgggaacggg accattgact tcccggagtt cctgaccatg atgg 174

<210> 369  
 <211> 216  
 <212> DNA  
 <213> Homo sapiens

<400> 369  
 aaatctcatg ggttctatta aaaaaatata tatatagggc cccaatccat tgccatcaaa 60  
 ttgcccttgg acttttccaa ggtatattat ggggttttat gcaaaattcc aagctaccat 120  
 gtaacttttt ttaaccattt aacaaggagg gggaactgtt tcctaccttc ttacatggt 180  
 gtgcattgtt gtggtccaga aatgccaaac cttttt 216

<210> 370  
 <211> 344  
 <212> DNA  
 <213> Homo sapiens

<400> 370  
 ccttggtcag gatgaagttg gctgacacag cttagcttgg ttttgcttat tcaaaagaga 60  
 aaataactac acatggaaat gaaactagct gaagcctttt cttgttttag caactgaaaa 120  
 ttgtacttgg tcacttttgt gcttgaggag gccattttc tgccctggcag ggggcaggtc 180  
 tgtgccctcc cgctgactcc tgcctgtgtcc tgaggtgcat ttctgttgt acacacaagg 240  
 gccaggctcc attctccctc cctttccacc agtgccacag cctcgtctgg aaaaaggacc 300  
 aggggtcccg gaggaaccca tttgtgctct gcttgacag cagg 344

<210> 371  
 <211> 741  
 <212> DNA  
 <213> Homo sapiens

<220>

<221> misc\_feature  
 <222> 644, 646, 689  
 <223> n = A,T,C or G

<400> 371  
 aaattacata tctaattgtg tgatttggtt aatgccatt tcttcatcta agtgctaagt 60  
 gctaagtgtg gcagtttggt ccctgctaca ctccaaggca caaaggaggt caaggaatgt 120  
 gcaatggaaa tcagtttagat gaatgtgtta ggaaccttcc ctttaataaa gctggatccc 180  
 aactagcccc ctacaccctc tcatcaccaa atattcctgc ttcctctcac ctgcacttgc 240  
 tgttctctcc tctgccacac aaatctacct ctcaagccta ggtcccacct gcttcatgac 300  
 aactttccag actattccag aacctttaac catctctgac ctctcatcag atctatgttg 360  
 tacataacac caattaatga gatcattact gctttatgct ctaattgctt cctgtattca 420  
 aaatcttctc tccaaccaca taatgactcc ctaaaacttct cttgtatttt ccaatgcctt 480  
 gtacaagcac agaactggtc aatcaataaa tactactggg ttatttgagg aaaaaatgtt 540  
 gccaaagcac atctttatca gaaaataaat caattcttct aaacttggag aaatcacccct 600  
 attcctagta tgtgatctta attagaacaa ttcagattga gaangngaca gcatgctggc 660  
 agtcctcaga gccctcgctt gctctcggn cctccctgcc tgggctccca ctttggtggc 720  
 atttgaggag cccttcagcc t 741

<210> 372  
 <211> 218  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 57, 218  
 <223> n = A,T,C or G

<400> 372  
 ccgccagtgt gctggaattc gcccttggcc gcccgggcag gtaccacaac agcaggngctg 60  
 agtgagaaat ctaccaacct ctacagtagc ccagatcac cggacacaac actctcacct 120  
 gccagcacga caagctcagg cgtcagtga gaatccacca cctcccacag ccgaccaggc 180  
 tcaacgcaca caacagcatt ccctggcagt accttggg 218

<210> 373  
 <211> 168  
 <212> DNA  
 <213> Homo sapiens

<400> 373  
 actgctaggg aatgctggtg tgtgcattga gcctggctcg ctgtgggagg tgggtggattc 60  
 ttactgacg cctgagcttg tcgtgctggc aggtgagagt gttgtgtccg gtgatctggg 120  
 gctactgtag aaggtggtag atttctcact caggcctgct gttgtggt 168

<210> 374  
 <211> 154  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 25, 34  
 <223> n = A,T,C or G



<220>  
 <221> misc\_feature  
 <222> 370  
 <223> n = A,T,C or G

<400> 378  
 agtgtgctgg aattcgccct tggccgcccg ggcaggtaca catcccatct tcaaatttaa 60  
 aatcatattg tcagttgtcc aaagcagctt gaatttaaag tttgtgctat aaaattgtgc 120  
 aaatatgtta aggattgaga cccaccaatg cactactgta atatttcgct tcctaaattt 180  
 cttccacctt cagataatag acaacaagtc tgagaaacta aggctaacca aacttagata 240  
 taaatcctac caataaaaatt tttcagtttt aagttttaca gtttgattta aaaacaaaac 300  
 agaaacaaat ttcaaaaataa atcacatctt ctcttaaaac ttggcaaacc cttccctaac 360  
 tgtccaagtn tgagcatata ctgccactgg ctttagatac tccaattaaa tgcactactc 420  
 tttcactggg ctgaatgaag tatggtgaaa caagc 455

<210> 379  
 <211> 297  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 16, 289  
 <223> n = A,T,C or G

<400> 379  
 agctcggatc cctagnacgg cgcgcagtggt gctggaattc gcccttagcg gcggcccggg 60  
 caggtacaaa gaatccttag acgccatact gagttttaag ttccttaatt cctaatttaa 120  
 ggcttctagt gaagcctcct cacagtaggc ttcactaggc ccacagtgcc cctagacctc 180  
 tgacaatccc accctagaca gactttattg caaaatgcgc ctgaagaggc agatgattcc 240  
 caagagaact caccaaatac agacaaatgt cctagatctc tagtgtgna gaactat 297

<210> 380  
 <211> 144  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 72  
 <223> n = A,T,C or G

<400> 380  
 actttgctga aaattctttt tcccagggtc tataaaacat taatttggtt ttatatattta 60  
 ctattttttt gngttttttt gtttttaaat caataagtaa tctaggacta gcattatggt 120  
 tgctagacct ggcatttgct cggc 144

<210> 381  
 <211> 424  
 <212> DNA  
 <213> Homo sapiens

<400> 381  
 actcttgaat acaagtttct gataccactg cactgtctga gaatttccaa aactttaatg 60

```

aactaactga cagcttcatg aaactgtcca ccaagatcaa gcagagaaaa taattaattt 120
catgggacta aatgaactaa tgaggataat attttcataa ttttttattt gaaattttgc 180
tgattcttta aatgtcttgt ttcccagatt tcaggaaact ttttttcttt taagctatcc 240
acagcttaca gcaatttgat aaaatatact tttgtgaaca aaaattgaga catttacatt 300
ttctccctat gtggtcgctc cagacttggg aaactattca tgaatattta tattgtatgg 360
taatatagtt attgcacaag ttcaataaaa atctgctctt tgtataacag aatacatttg 420
aaaa 424

```

```

<210> 382
<211> 408
<212> DNA
<213> Homo sapiens

```

```

<400> 382
actcttgaat acaagtttct gataccactg cactgtctga gaatttccaa aactttaatg 60
aactaactga cagcttcatg aaactgtcca ccaagatcaa gcagagaaaa taattaattt 120
catgggacta aatgaactaa tgaggataat attttcataa ttttttattt gaaattttgc 180
tgattcttta aatgtcttgt ttcccagatt tcaggaaact ttttttcttt taagctatcc 240
acagcttaca gcaatttgat aaaatatact tttgtgaaca aaaattgaga catttacatt 300
ttctccctat gtggtcgctc cagacttggg aaactattca tgaatattta tattgtatgg 360
taatatagtt attgcacaag ttcaataaaa atctgctctt tgtatgac 408

```

```

<210> 383
<211> 455
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 70, 72, 73, 184, 185, 330
<223> n = A,T,C or G

```

```

<400> 383
actcttgaat acaagtttct gataccactg cactgtctga gaatttccaa aactttaatg 60
aactaactgn cnccttcatg aaactgtcca ccaagatcaa gcagagaaaa taattaattt 120
catgggacta aatgaactaa tgaggataat attttcataa ttttttattt gaaattttgc 180
tganncttta aatgtcttgt ttcccagatt tcaggaaact ttttttcttt taagctatcc 240
acagcttata gcaatttgat aaaatatact tttgtgaaca aaaattgaga catttacatt 300
ttctccctat gtggtcgctc cagacttggg aaactattca tgaatattta tattgtatgg 360
taatatagtt attgcacaag ttcaataaaa atctgctctt tgtataacag aatacatttg 420
aaaacattgg ttatattacc aagactttga ctaga 455

```

```

<210> 384
<211> 376
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 276, 357
<223> n = A,T,C or G

```

```

<400> 384
actcttgaat acaaggttct gatatacactg cactgtctga gaatttccaa aactttaatg 60

```



ccctacgcac cctttacata acagacgagg tcaacgatcc ctccottacc atcaaataca 180  
ttggccacca atggt 195

<210> 389  
<211> 183  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 31, 32, 60, 115  
<223> n = A,T,C or G

<400> 389  
taacactcac aacaaaacta actaatacta nnatctcaga cgctcaggaa atagaaacn 60  
cctgaactat cctgcccgcg atcatcctag tctcatcgcc cctcccatcc ctacncatcc 120  
tttacataac agacgagggt aacgatccct cccttaccat caaatcaatt ggccaccaat 180  
ggt 183

<210> 390  
<211> 473  
<212> DNA  
<213> Homo sapiens

<400> 390  
acaaagcagc aactgcaata ctcaagggtt aaacattaga aaagcatttg tgtgacaggt 60  
atattacagt attatcaaaa tattacattt tcagacttac ttagcagata atcatccacc 120  
agagcttaaa tcttttaaatt atttccatag tcttaaaaaa tatgtaatgt cagaatgcat 180  
ataaaaagaa tgtaaaaagga aacctaataa acaaatggaa taatgtaaca aataaatatt 240  
tgatttcagt aactgttaatt aatcagctca acaccaccat tctctctaaa ctcaatttaa 300  
ttcttatagg aataatgaac tgtcaaatgc catggcataa ttatttattt ccaagctatc 360  
atcaatgatt agaactaaaa aaaatttggc ataaaaaaat cacaattcag cataaataaa 420  
gctattttta gcttcaacac tagctagcat ctctaagaat tggtgaaata agt 473

<210> 391  
<211> 216  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 41, 42  
<223> n = A,T,C or G

<400> 391  
atttgtattt taggtttcct ttacatttct ttttatatgc nntctgacat tacatatttt 60  
ttaagactat ggaaataatt taaagattta agctctgggt gatgattatc tgctaagtaa 120  
gtctgaaaat gtaataattt gataatactg taatatacct gtcacacaaa tgcttttcta 180  
atgttttaac cttgagtatt gcagttgctg ctttgt 216

<210> 392  
<211> 98  
<212> DNA  
<213> Homo sapiens

<400> 392  
 acttattttca acaatttctta gagatgctag ctagtgttga agctaaaaat agcttttattt 60  
 atgctgaatt gtgattttttt tatgccaaat ttttttaa 98

<210> 393  
 <211> 397  
 <212> DNA  
 <213> Homo sapiens

<400> 393  
 tgccgatata ctctagatga agttttacat tgttgagcta ttgctgttct cttgggaact 60  
 gaactcactt tcttcttgag gcttttgatt tgacattgca tttgaccttt tatgtagtaa 120  
 ttgacatgtg ccagggcaat gatgaatgag aatctacccc cagatccaag catcctgagc 180  
 aactcttgat tatccatatt gagtcaaatg gtaggcattt cctatcacct gtttccattc 240  
 aacaagagca ctacattcat ttagctaaac ggattccaaa gagtagaatt gcattgaccg 300  
 cgactaattt caaaatgctt tttattatta ttatttttta gacagtctca ctttgtcgcc 360  
 caggccggag tgcagtgggtg cgatctcaga tcagtgt 397

<210> 394  
 <211> 373  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 283  
 <223> n = A,T,C or G

<400> 394  
 ttacattggt gagctattgc tgttctcttg ggaactgaac tcactttcct cctgaggcctt 60  
 tggatttgac attgcatttg accttttatg tagtaattga catgtgccag ggcaatgatg 120  
 aatgagaatc tccccccaga tccaagcacc ctgagcaact cttgattatc catattgagt 180  
 caaatggtag gcattttccta tcacctgttt ccattcaaca agagcactac attcatttag 240  
 ctaaacggat tccaaagagt agaattgcat tgaccacgac tantttcaaa atgcttttta 300  
 ttattattat ttttttagaca gtctcacttt gtcgccagc ccggagtgca gtggtgcgat 360  
 ctcagatcag tgt 373

<210> 395  
 <211> 411  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 327  
 <223> n = A,T,C or G

<400> 395  
 actgatcatt ctattttccc ctctattgat cccacactcc aaatatctca tcaacaaccg 60  
 actaatcacc acccaacaat gactaatcaa actaacctca aaacaaatga taaccataca 120  
 caacactaaa ggacgaacct gatctcttat actagtatcc ttaatcattt ttattgccac 180  
 aactaacctc ctgggactcc tgctcactc atttacacca accaccaat tatctataaa 240  
 cctagccatg gccatccctt tatgagcggg cgcagtgatt ataggctttc gctctaagat 300



```

taaaaatgcc ctagccact tcttacngca aggcacacct acacccctta tccccatact 360
agttattatc gaaaccatca gcctactcat tcaaccaata gccctggccg t 411

```

```

<210> 396
<211> 411
<212> DNA
<213> Homo sapiens

```

```

<400> 396
actgatcatt ctatttcccc ctctattgat ccccacctcc aaatatctca tcaacaaccg 60
actaattacc acccaacaat gactaatcaa actaacctca aaacaaatga tagccatata 120
caacactaaa ggacgaacct gatctcttat actagtatcc ttaatcattt ttattgccac 180
aactaacctc ctcggaacct tgcctcactc atttacacca accaccaac tatctataaa 240
cctagccatg gccatccccct tatgagcggg cgcagtgatt ataggctttc gctctaagat 300
taaaaatgcc ctagccact tcttaccaca aggcacacct acacccctta tccccatact 360
agttattatc gaaaccatca gcctactcat tcaaccaata gccctggccg t 411

```

```

<210> 397
<211> 351
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 1, 7, 71, 93, 208, 276, 340, 345
<223> n = A,T,C or G

```

```

<400> 397
ngccgangta caaaaaaaaaa cacattccta gaaaaaggtt ttggcaaata gtaaaaatgg 60
gaggtcaaaa ncaaaaaaaaaa aaaaaacaaa acnaaaaaaa gaaaaaacca acaattcttc 120
aattcagtgt gcaaacatta tataaaaata gaaatactaa ctctacaggc agtatttcct 180
gataaattat ttaaatagca tatctacnca atctgagata tctattccaa tggcaatgag 240
aaaataattt ataaaaataa agcaatggta taccanatga tagaaaaaaaa cataactttc 300
agaaattgta tttaacattt caatgctatt tccttattgn gaatncttct c 351

```

```

<210> 398
<211> 363
<212> DNA
<213> Homo sapiens

```

```

<400> 398
acaaaaaaaa gcacattcct agaaaaaggt attggcaaat agtaaaaatg ggaggtcaaa 60
agcaaaaaaa aaaaaaacaa aacaaaaaaa agaaaaaacc aacaattctt caattcagtg 120
tgcaaacatt atataaaaat agaaatacta actctacagg cagtattttc tgataaatta 180
tttaaatagc atatctacac aatctgagat atctattcca atggcaatga gaaaataatt 240
tataaaaaa aagcaatggg ataccagatg atagaaaaaa acataacttt cagaaattgt 300
atttaacatt tcaatgctat ttccttattg ggaatacttc tctgcagagt ttttatgcta 360
tgt 363

```

```

<210> 399
<211> 360
<212> DNA
<213> Homo sapiens

```

<400> 399  
 actgttttct cgtgggttcag ggggtgtgcat gaaggctctt aggagagcaa acacctgttc 60  
 ctattctgta tgtccctccc tcatttcaaa tgagagtaac caattgagta aaataacca 120  
 ataaccattg cccaccatg aacatggggc ttgggaagac agtcctacaa tcttcatcat 180  
 atatttaggt ttttaggcca gccagctctt tttttccaaa gctttctttt gaataccgc 240  
 ccgggcggcc cctaagggcg aattctgcag atatccatca cactggcggc cgctcgagca 300  
 tgcacttaga gggccaatt cgccctatag tgagtcgtat tacaattcac tggccgtcgt 360

<210> 400  
 <211> 87  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 12, 43, 83, 85  
 <223> n = A,T,C or G

<400> 400  
 ctgcacatat cnattacact ggcggccgct cgagcatgca tgnagagggc ccaattctcc 60  
 ctatattgag tggaattaca atncnct 87

<210> 401  
 <211> 328  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 206  
 <223> n = A,T,C or G

<400> 401  
 acccaggac acaaacactc tgcctaggaa aaccagagac ctttgttcac ttgtttatct 60  
 gctgaccttc cttccactat tgtcctatga ccctgccaaa tccccctctg cgagaaacac 120  
 ccaagaatga tcaataaaaa ataaaataaa attaaattaa aaaaaaaaaa agagaggaac 180  
 ccacaaaaaa aaaaaaaaaa aaagtntata aaataaaaata ttgaagtcct tcccattaa 240  
 aaaaaaaaaa aagaaaaagc acggactctt tcatccagtt ctgatgtgat tatctctgga 300  
 aggcattttc tctctctctt cctcctcc 328

<210> 402  
 <211> 268  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 1, 227, 253  
 <223> n = A,T,C or G

<400> 402  
 nacataatga caacatcttc actagactga gtgttcaagg atttgagatg attcgctatt 60  
 catcacacc cgaagattga gatccactgt atttacacaa agcaaagcca tgtcagcaag 120

ggactgtcaa cctgattctg agaacataaa cattcaaaat ttatttttcca gtgttccttt 180  
 ttggaaacca acaacacatc ttttaatacct acacacacac acatctntac ctttaaaaaa 240  
 aaaaaaaaag tгнаacttca cagatagt 268

<210> 403  
 <211> 538  
 <212> DNA  
 <213> Homo sapiens

<400> 403  
 acagtgatag ctccccctgg gcaatacaat acaagaacag tgggttttgt caaattggaa 60  
 caaggaaaca gaaccacaga aataaataca ttggttaaca tcagattagt tcagggttact 120  
 tttttgtaaa agttaaagta gaggggactt ctgtattatg ctaactcaag tagactggaa 180  
 tctcctgtgt tctttttttt tttaaattgg ttttaatttt ttttaattgg atctatcttc 240  
 ttcccttaaca tttcagttgg agtatgtagc atttagcacc actgggtcaa tgcgctcacc 300  
 taggtgagag tgtgaccaa tcttaaagca ttagtgctat tatcagttac caccatttgg 360  
 ggcttttatc cttcatgggt tatgatgttc tcctgatgac acatttctct gagttttgta 420  
 attccagcca aagagagacc attcactatt tgatggctgg ctgcatgcag acatttaaaag 480  
 ctttttagaga atacactaca ccagggagta tgactactag tatgactatt aggagggt 538

<210> 404  
 <211> 310  
 <212> DNA  
 <213> Homo sapiens

<400> 404  
 tttttttata gatacaattg gctttttattt gtgattcatg agtcagggca gtttccattc 60  
 tgcaaaatat agtgatagct cctactgggc aatacaacag tagaacagtg ggttttgtaa 120  
 aatgggaatc caggaacaga agaataataa taaattgatt taaataaact gattgggttaa 180  
 tttcagaata cttcatatta cttttttcta agagttaaag cagaaaggac tttcttactg 240  
 tgctgactca gacagcctgg actctcatgt ttttaggaaa attttgtctg ttctgggac 300  
 tacctgcttc 310

<210> 405  
 <211> 559  
 <212> DNA  
 <213> Homo sapiens

<400> 405  
 acaaatcaca attattaact cactggtagg gcagtgatga tcaaaccaat tgcattcatc 60  
 catgctgtaa tgttctctct tggcactaaa ggctgactgc agccggcaaa aaagaatgta 120  
 agtatgaatt tataaaaaa ttttagatgg ctgacaacgg atcttatttt taaagaatat 180  
 gtctaattca gaggatcgac aactaatcca tttcaataaa acaatgggga attttttatt 240  
 gaataaaaaat gtaatatgca taaaaactca agaaggcttt ttaaaaatac ttctctccca 300  
 atcattatcc catacttcat gctaattttt aaaagaatct tgaaatcttg aaaacaagat 360  
 gaagagaatc ttgttttaag tgacaagtta acattattcc tatattaaat gtcaaaactgc 420  
 tattaatgag tagaagtagg aacaaacccg gatcttagga tcctgtccag ggctcattcc 480  
 ataactccta tatcacaag acaagatctg gaaccagaaa acagtcatca tccaatgtgc 540  
 atcagccttg cggcaacag 559

<210> 406  
 <211> 427  
 <212> DNA  
 <213> Homo sapiens

<400> 406  
 acaacagaat atctcgggaa tggactcaga agtatgccat gtgatgctac cttaaagtca 60  
 gaataacctg cattatagct ggaataaact ttaaattact gttccttttt tgattttctt 120  
 atccggctgc tccctatca gacctcatct tttttaattt tattttttgt ttacctccct 180  
 ccattcattc acatgctcat ctgagaagac ttaagttctt ccagctttgg acaataactg 240  
 cttttagaaa ctgtaaagta gttacaagag aacagttgcc caagactcag aattttttaa 300  
 aaaaaaaatg gagcatgtgt attatgtggc caatgtcttc actctaactt ggttatgaga 360  
 ctaaaaccat tcctcactgc tctaacatgc tgaagaaatc atctgagggg gagggagatg 420  
 gatgctc 427

<210> 407  
 <211> 419  
 <212> DNA  
 <213> Homo sapiens

<400> 407  
 acaatttgta gttgtttcca ggtttggcta ataatcattc cttaacctag aattcagatg 60  
 atcctggaat taaggcaggc cagaggactg taatgataga attaaattag tgtcactaaa 120  
 aactgtccca aagtgtctgt tcctaataagg aattcattaa cctaaaacaa gatgttacta 180  
 ttatatcgat agactatgaa tgctatttct agaaaaagtc tagtgccaaa tttgtcttat 240  
 taaataaaaa caatgtagga gcagcttttc ttctagtttg atgtcattta agaattacta 300  
 acacagtggc agtggttaaat gaagatgctg tctacaaggc agataatata ctgtttgata 360  
 ctcaaaacat ttttcatttt gtttaaagta gaagttacat aattctatat ttttaagtct 419

<210> 408  
 <211> 523  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 520  
 <223> n = A,T,C or G

<400> 408  
 acatttgatg ttatgtgaat gttgagtttt tttcttctaa ttttcacttc agcagtgttt 60  
 agggctttca gatgccttat tccagtgtga acagaaaaag ttcataattt atgtgggttaa 120  
 tgctttgatg tgtcacataa agagtagttt gtagaaaatg ttggcacaat ttttaacttct 180  
 tagtggtttg tgacattata tattatatat atatgtatat atatctttat aacattcctg 240  
 tgtttagtag tgtaaatggt ctgggcaagt ttttaatttt tgaatgcctt tggatattcc 300  
 agcaataaag gcatcatggt ctgcaatagg atttcttact catttaccta ttttaacact 360  
 aaaatagacc acaactgagc acaaatttct tttataaatg ttatagaagc agggaagaat 420  
 aataaacaca tttgtgaatt gtggttcagt ttatttatct ttagggaagg ctgatcattt 480  
 atcttatagc acataacccc agcctcttat tcattatggn taa 523

<210> 409  
 <211> 191  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 156, 190

<223> n = A,T,C or G

<400> 409

```

accccgtagt gatgagcact gactgggttca ctggccacat tttagttctt cataataata 60
ggccacaaaa gggctctgtg gtttgccctcc atgtgactg gccctcccc acccctaggg 120
ggcactcagt agctgctgag aaggcctgtc cacgangctg ttggaacccc ttcaataaat 180
acttagaagn a                                     191

```

<210> 410

<211> 403

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 399

<223> n = A,T,C or G

<400> 410

```

aactggcca gtgtgttttt ggcgattaaa cataatcctg tgaatcagat taattcactt 60
gctgagtgtt catttgccgc atccctctgt tgggtcttgg gggccctcca cgacctogtg 120
gggctccccg tgggtccactc tgcccagagc ctgcttgtaa attctgctga tatccatccc 180
gttgatagcc agagtaatcc cggggagcac tgaactgaga ctgtgtataa ccactgtttg 240
gagtgttaga gaatgaaggc cggtaaccat catatcctcc tctgaatcca ttggcagggc 300
cccggtatcc attcatcaag cctctagcac cacgggagcc tccacgagac acaccacgac 360
tattgtaata gggctgattg ctacgtggaa atccagtnt ctg                                     403

```

<210> 411

<211> 384

<212> DNA

<213> Homo sapiens

<400> 411

```

acgtgaaatc ataacaacat gttctcttgt gtttggttc tcttgctcag catgataattt 60
ttacggttca cccatattgc atgtatcagg aatataatcc tttttattat tgagtagtgt 120
tctattgtat gtatatacca cagtttattt ctcccttcat cctttgctag attttggggg 180
tttttcacat tgcgtattc aagtataaac ctgctctcaa cattcatgtg caagtctttg 240
agtggacata tatttgccgt ttctcttgag tgaatgcacc ttgttgggtc acgtggctta 300
atttaaaaaa attttaatca ctgtggtgca tatgtagtga ttattagtga ttatctcata 360
attttatttt cttgatgact aatg                                     384

```

<210> 412

<211> 315

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 71, 314

<223> n = A,T,C or G

<400> 412

```

acaatatttc tcctttgaga agataggata tatgattttc ccaaaaatca caactttgaa 60
ggaagactta nttgctgact tcaattatat cctggaactg gcaacttgtg cccttccttt 120

```

```

gottcaaaaa aagtgtgaaga aagagtgata agatcaactt taatcattct tggatcttca 180
gcaaattcag gatcaatgta gaaaaacact ggcatactta cttcctcttg gggattaagc 240
ctttgttctt caaaacagaa gcactgtatt ttattgaaat actgtccacc ttcaaattga 300
acaatattgt atgna 315

```

```

<210> 413
<211> 554
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 479, 542, 551
<223> n = A,T,C or G

```

```

<400> 413
acagggtttca ctattacaaa tatatgatgt taaactaaca aactcatgac cttcaaagat 60
gtcttctgtcc cagcacacaca catttgtaat ttgtgtccat ttgctatttc ccttcttcta 120
taatcttcaa attatatagt tatgcattga gtccctatg catctcacc atctccttta 180
tctcagcctt ctcatacttt gccattctct tctttctgga aataaccagc acaacaattc 240
cagcaacaac tgctatcacc acaaccacaa taacagcaat aacaccagct tttagaccct 300
gcattgagaa ttccagggtgt ttttcatcaa cataataaat taaagtttga ccaggatcca 360
gatccagttg ttcccccattt actgtcaggt gccattttct tagaatgaaa caaggattca 420
cctttaacat ctttttcaaa ataataagcc acatcagcta tgtccacatc attctgagnt 480
ttttgagaag aattttgaac cagatcaata gtgataacat tattctcata caaaatactc 540
gngataaatt ntgg 554

```

```

<210> 414
<211> 267
<212> DNA
<213> Homo sapiens

```

```

<400> 414
accagaaagg cacacgattt tacaatattt gttggaatta ccttactttt taacctctc 60
atagcagttt tggtttgagt atattgatga aagccaaagt ctggtatcta aaacttgggc 120
caatgtttcc caactggtat atgtcaggct ttcccaatag cttaactgtg accctatacg 180
gatggctttt tagatagttc tatactgctg tattgtgtta gcacttttct ttgtcattaa 240
caacacactt taaatgacat ttggtga 267

```

```

<210> 415
<211> 454
<212> DNA
<213> Homo sapiens

```

```

<400> 415
accggaacct gcagaaacag tgtgagaaat taagtcctgg ttcactgcgc agtagcaaag 60
atggtcaagg ccatggaaaa agcagaaatt taccaagaaa gctgatacc atgtatagtt 120
ccactcatc tcaaatacat ctgctatctt tttaagctaa gtcctagaca tatcggggat 180
aacatggggg ttgattagtg accacagtta tcagaagcag agaaatgtaa ttccatattt 240
tatttgaaac ttattccata ttttaattgg atattgagt attgggttat caaacaccca 300
caaactttta ttttgtaaaa tttatatggc tttgaaatag aagtataagt tgctaccatt 360
ttttgataac attgaaagat agtattttac catctttaat catcttggaa aatacaagtc 420
ctgtgaacaa ccactcttcc acctagcagt atga 454

```

<210> 416  
 <211> 370  
 <212> DNA  
 <213> Homo sapiens

<400> 416  
 ccgacacggt gccagcgccc tgctgcggtgc ccgccagcta caatcccatg gtgctcattc 60  
 aaaagaccga taccgggggtg tcgctccaga cctatgatga cttgttagcc aaagactgcc 120  
 actgcatatg agcagtcctg gtccttccac tgtgcacctg cgcggaggac gcgacctcag 180  
 ttgtcctgcc ctgtggaatg ggctcaaggt tcctgagaca cccgattcct gcccaaacag 240  
 ctgtatttat ataagtctgt tatttattat taatttattg gggtgacctt cttggggact 300  
 cgggggctgg tctgatggaa ctgtgtattt atttaaaact ctggtgataa aaataaagct 360  
 gtctgaactg 370

<210> 417  
 <211> 463  
 <212> DNA  
 <213> Homo sapiens

<400> 417  
 acactttata tattccaaat tgatcagata tatgggtttgc aaattcatct caatctgtag 60  
 cttatctttt cctcttctta aatcacaagt ttttaaattt tgaagaagtc caatatatca 120  
 gatttttgtct tttatggatg tgctttcggg gcaaagtcga agaacttgct acctagccca 180  
 agatcctgaa gattttttctc ctgtggcctt tttcaaagtt atctagtctt atgtatcaca 240  
 ttttaagtccg ttatacattt tgagttaaatt tttatataag atgtgaggtt taagtagagg 300  
 ttcttttttc tcctcgccat ggggtgtctaa ttgctctagc ataatttgct agaaaggcta 360  
 ttcttcctcc attgaattgc tttttcactt tttcaaaatc agctgagcat atttatatgg 420  
 gtttatttct gggttctctc atctgtttcca ttgacgtatg tgt 463

<210> 418  
 <211> 334  
 <212> DNA  
 <213> Homo sapiens

<400> 418  
 ttagcatttg cttttatttt tttactttga tgctttttca aattggcatg tctttaaagt 60  
 atttttcttc ctgattaaaa atgtgtgtgt atgtgtgtgt gtgtgtgtat atatatattt 120  
 ttttaaataca cattaatttt accaagtga accaagccat actgtttttg agccaattaa 180  
 gaaaattgcc atttttaaag tgtagcattt cagggtaaa acccatgaaa tggcttgatg 240  
 tattctagac tactgaaaga aaaccacttc aaagattttg ttgaaagttt tagtggtgtc 300  
 tgaaatgcaa gaggggaaggt gattggtagt gagt 334

<210> 419  
 <211> 297  
 <212> DNA  
 <213> Homo sapiens

<400> 419  
 acttctttga ccaaggaata ccacagacac cctaccgata gaacagtggc tcagatctta 60  
 cttgtcctcg cttacgaagt attcccaatc actgggtcatc tgaccctact tgaacaactcc 120  
 tgaacagtca tgttttttaa aatcttccct tatatcaagt cagagagtat acttctataa 180  
 atttactca tggatgttag gaaatctagt catcttccct gtgattgccc tgtaagtat 240  
 ttaaccatag ctatcatgtg tttcccaaat cttctctaga ttaaatatct tcagtta 297

<210> 420  
 <211> 418  
 <212> DNA  
 <213> Homo sapiens

<400> 420  
 acgagaggaa ccgcagggttc agacatttgg tgtatgtcct atcaatagga gctgtatttg 60  
 ccatacatagg aggccttcatt cactgatttc ccctattctc aggcctacacc ctagacccaaa 120  
 cctacgccaa aatccatttc gctatcatat tcatcggcgt aaatctaact ttcttcccac 180  
 aacactttct cggcctatcc ggaatgcccc gacgttactc ggactacccc gatacatata 240  
 ccacatgaaa taccctatca tctgtaggct cattcatttc tctaacagca gtaataattaa 300  
 taattttcat gatttgagaa gccttcgctt cgaagcgaaa agtcctaata gtagaagaac 360  
 cctocataaaa cctggagtgga ctatatggat gccccccacc ctaccacaca ttcgaaga 418

<210> 421  
 <211> 304  
 <212> DNA  
 <213> Homo sapiens

<400> 421  
 acgcctggac ccctgtgact tgcagcctat ctttgatgac atgctccact ttctaaatcc 60  
 tgaggagctg cgggtgattg aagagattcc ccaggctgag gacaaactag accggctatt 120  
 cgaaattatt ggagtcgaaga gccaggaagc cagccagacc ctccctggact ctgtttatag 180  
 ccatacttctt gacctgctgt agaacatagg gatactgcat tctggaaatt actcaattta 240  
 gtggcagggt gggttttttaa ttttcttctg tttctgattt ttgttgtttg ggggtgtgtgt 300  
 gtgt 304

<210> 422  
 <211> 578  
 <212> DNA  
 <213> Homo sapiens

<400> 422  
 actgtgcagg cagattcaca ggggtgggtggt aaagcatcca caatggctct ggcagcatca 60  
 ggatcacact tgaaggggct ctgagacaaa gttgtattca tgcaactgat tccttttcca 120  
 ttctgttttct tagtcaactaa tgcttttcaa tggatcatgag tgctttttaa aatatcaatg 180  
 gcaaagtccct tatcttttaa ttctgcatta aacgcaaact catcttcttg ttttccatca 240  
 ggaaccttat accttctaaa ccagtcacaca gtagcttcta agtagccagg tttcagccgt 300  
 ttgacatcat tgatatcatt ataattggct gcatcaggat catccacatt aatggcaatg 360  
 actttccagt cgggtttcccc ttctgtcaatc atagccaata tgcctagaac tttcaattat 420  
 ttattttcacc tcttgacat accttgcttc caatttcaca cacatcaatt gggtcattgt 480  
 caccacaaca gccagtatgt ttatcattgt gccctgggtc ttcccaagtc tgaggggatgg 540  
 caccatagtt ccagatatat cttttatagc ggaacaaa 578

<210> 423  
 <211> 327  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 309, 312  
 <223> n = A,T,C or G



<400> 423  
 acagtatatt tttagaaact catttttcta ctaaaacaaa cacagtttac tttagagaga 60  
 ctgcaataga atcaaaattt gaaactgaaa tctttgttta aaagggttaa gttgaggcaa 120  
 gaggaagcc ctttctctct cttataaaaa ggcacaacct cattggggag ctaagctagg 180  
 tcattgtcat ggtgaagaag agaagcatcg tttttatatt taggaaattt taaaagatga 240  
 tggaaagcac atttagcttg gtctgaggca ggttctgttg gggcagtgtt aatggaaagg 300  
 gctcactgnt gntactacta gaaaaat 327

<210> 424  
 <211> 384  
 <212> DNA  
 <213> Homo sapiens

<400> 424  
 acgaaaaata aatctcctta aaaactaaat aaaatgcact gtattccttac agttaatggt 60  
 tataactata gtaaaaaatt aatataatc ctattacata aatgttattt cttagggtgtt 120  
 ccattaagaa gagcaataga ataatgctaa aaaataatgc ctataaatct tcagagtata 180  
 aagacatcca ttcagaaaca aaaattagca ctaaattttt tataaaatag accagatgac 240  
 aaaattttatt ttattttttaa acagtgggtt tgacacaaat tatgttattg aaaagcatta 300  
 ttaatgttta atttattttaa aatttttgaa tttgccattt ctcagagaat gatcaggcct 360  
 taggaaatta atacagtagt agta 384

<210> 425  
 <211> 255  
 <212> DNA  
 <213> Homo sapiens

<400> 425  
 actatcaggc tttgtgctga tttcctgaac aaactgcatt atattatgaa aacaaaagga 60  
 aaagaagaaa taataaaaaac tatactccca tatttcactt acagtgttg agttcctgga 120  
 aggacctata taatggaggc agcattcaaa caagaaatta tgccaatcaa ctgtcaaatt 180  
 ttcactataa ttttctctaaa aaggcgttt tcccccaata tctattaatc tcaaagaaac 240  
 ataagttgtg aatgt 255

<210> 426  
 <211> 196  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 8, 10, 11  
 <223> n = A,T,C or G

<400> 426  
 acatgaantn nccaggccca cacagccaga cagcaacaga accaagacct agggctcttc 60  
 actcctgtga catcacacca tggcaatgat tttacattct ccaactgatt caaatcatat 120  
 ggcagctagg gatttggggg ctccatgttt tatttcaatt gcaagttcaa gatttctttt 180  
 tatctttgtg ggctga 196

<210> 427  
 <211> 163  
 <212> DNA  
 <213> Homo sapiens

```

<400> 427
acagaagatc catggaggca agtgctgtca ggaaggacac tgcctccctc caccctccca 60
aatgtcacca ccaagttcct tcaggtgaga cctcacacaa tgtcaagtgc tttctaggaa 120
atactaagat caggttgaga gattctgctt ggtctagtca atc 163

```

```

<210> 428
<211> 315
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 1, 10
<223> n = A,T,C or G

```

```

<400> 428
nactgagtan agatgctggg gaatgtgcaa tatgccttga agaattgcag cagggagata 60
ctatagcacg actgccttgt ctatgcatat atcataaagg ctgcatagat gaatggtttg 120
aagtaaataag atcttgcctt gagcaccctt cagattaagc gtcagcttcc tgttttatag 180
gttttcttgt cttgacaaga tgcttgaaaa accaagagga tatgaaaatc tgtctctgga 240
gaaacaaaga cgcaggcata ctcagccaga aatctgagtt ttgtgagact tggtaataca 300
gagatggaca atcgt 315

```

```

<210> 429
<211> 131
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 10, 42
<223> n = A,T,C or G

```

```

<400> 429
acagttaggn actagaacat ttgttaagcc tcccaaagta gngtgcattg aagattctag 60
agtggtccagc tcttgcaact caaatgtaat aataacagaa taaatacact taccctgatg 120
atattgaggg t 131

```

```

<210> 430
<211> 503
<212> DNA
<213> Homo sapiens

```

```

<400> 430
actgattttt aataaaagaa ataagggttca aagtttagca caacaacaca gcaataagaa 60
gctgacaact tggataaaaa tacaagaaag taacacagag cccaggctac ccattatttta 120
ctgtgtgcat acaggaatgc tatacttcag atgtataaat tagagactga ttttaagtta 180
ttaatttaac tactttttgt ccactgtgct aaactaaatt ttataactaat gtgctactgc 240
gtaaacactt caaagcaatc ttcattaaaa tgctgcaaag aaaaacaaga atacacatca 300
tccaaaacta aggatgtcat tgcagttcac agtttgtata ataaataccc tccctttcaa 360
tcactactaa gatcactaca tcctatctac tcatcagcac aaccttgaag caacttatac 420
ttacaaatat tagcaatgca gccaaacatt tgttttttgc aaagcaacta gtaaaaatca 480
agaattttta ttaagacggt gca 503

```

<210> 431  
 <211> 207  
 <212> DNA  
 <213> Homo sapiens

<400> 431  
 acaagtgtgg cctcatcaag ccctgccag ccaactactt tgcgtttaaa atctgcagtg 60  
 gggcgcccaa cgtcgtgggc cctactatgt gctttgaaga ccgcatgac atgagtcctg 120  
 tgaaaaacaa tgtgggcaga ggcctaaaca tcgccctggt gaatggaacc acgggagctg 180  
 tgctgggaca gaaggcattt gacatgt 207

<210> 432  
 <211> 485  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 37, 43, 56, 59, 435, 438, 453  
 <223> n = A,T,C or G

<400> 432  
 aaaaaaagta atggaaaaat gggtgcaggt ttaatcncaa aangaactta attttngtng 60  
 attttgtttt atctgctaaa acactaatat ctataaatat gaactgacag catcgttcta 120  
 aatttacttc tgaagagctg tcgagacttc aataaaatat aagcaagtta ctggatcata 180  
 tttatggact gctgaattaa ctacccgaaa agtatcagtt actttcaaag aacacaaaac 240  
 aaagtgaacg tggaaaaaag ctttctttgc aaaagtcctt ttattagtcc tatcctctaa 300  
 aattccaagc cacagagcct tgatattcct ggattctggt ttaagtaacc ttagttttaa 360  
 atatgacact tgggatatgc acaatgggaa agggtaggat atgtgaacaa aatttaattt 420  
 cttttttcca aaggnagnca ttttctttaa atncatccta tccacttttg cccacttccc 480  
 catgt 485

<210> 433  
 <211> 280  
 <212> DNA  
 <213> Homo sapiens

<400> 433  
 actgtcacta caatattaca ttctgcaa atgtattctgt tgtatcagat acaaaaattt 60  
 agtgaggat ctctaaggca catagtagaa aacaaaattg gttaattact caagttcctt 120  
 tcaactgtgat ttggaaatga tttaatcttt atagaatgag aacctttttt ggactagctt 180  
 ttttattaaa atggctcaat ttgtgttgat aaggattgca ttaatatatta atagtgtttg 240  
 cttttcctct gggcacacca ttttgatcat taaccagagt 280

<210> 434  
 <211> 234  
 <212> DNA  
 <213> Homo sapiens

<400> 434  
 ctttgctgcg catcagggtgc ttttaagcttc ggaacaactg tgcaggattc tatttttagta 60  
 ttctggaagc atcattgagg aagtagtcca gtgaagttag ctctaaaaaa actctttact 120  
 ctaacaatta aaagaaatat gccaaaggat ccataaggga tgaataaatt attaaactat 180



ctcccaaattg t

431

&lt;210&gt; 439

&lt;211&gt; 170

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 439

actgtcataa	aaaacagtgg	agctctgtat	tagaaagccc	ctcagaactg	ggaaggccag	60
gtaactctag	ttacacagaa	actgtgacta	aagtctatga	aactgattac	aacagactgt	120
aagaatcaaa	gtcaactgac	atctatgcta	catattatta	tatagtttgt		170

&lt;210&gt; 440

&lt;211&gt; 400

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 440

acgtaaaaag	aacatccttc	ccatcttcaa	ggtcaagatt	gaacgctgac	tcttgcagga	60
agtcttccag	gattcccagg	caggaatgat	ggctccctgt	ccctgtagct	ccaggagttc	120
ttgcttcacg	cacgcctcac	ataccagact	gaatgttggc	aggaggagtg	accaggctcg	180
tcactctgtg	ccctaccacc	tacaacaggc	cagcaatcta	cccgtgtgtg	tttgttggac	240
agaattaacc	atgatgggcg	gccgagggcg	cctggagcta	tttgggggct	tggagagAAC	300
ctcttaggag	agtgtcaggc	tctaggccag	tgtcaccaga	ggaggtcagt	ctcagtcctt	360
ggagtgggtg	gatggaaacc	agacgggact	ggcatggtcc			400

&lt;210&gt; 441

&lt;211&gt; 204

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 441

acctagttag	ttcttaagat	cagggtgtata	aaactgtgga	gtggagcggg	atgggtatgga	60
atgactttgga	atgtaagctg	tcagggagaa	aatgtttgta	cactttttgct	aagatctggg	120
ggttttcttca	tatttctgtg	gttggaagca	gttgaccaga	aatgcttgcc	agtactgccA	180
aagcactgct	gtgaaatgtg	aagt				204

&lt;210&gt; 442

&lt;211&gt; 649

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 442

acattttaatt	ttttacaaca	ttttctccct	agagatatata	tttagatatt	cctatcttca	60
aagtaaaaaat	caaaatagga	aataagcata	gaaacagcct	attggcagtg	gttacacctg	120
catgggtattt	atgagtctcc	aaactatttg	aaattttatt	caaccaagggt	tctcttaagt	180
cttcattact	tgggtgtaac	tcgagagaaa	actaatttat	atcaattttac	agtttagtgg	240
tcattgatcag	gggaaagtga	tactcttcca	ctgactacaa	gtcattgcag	aggcagttta	300
gaactttttcc	tttattccta	atatacagga	caaaccttgc	cgacatctca	ctacctcaaa	360
aatcaaaattt	aaatgaagta	tccaggagta	gcctaaagaa	tgagtgtaat	ctggatggat	420
tttagtctaa	atattatgct	tgctcttcag	taaagtatag	taactccaga	tatatgttcc	480
acagatgcaa	taattttctgt	tccttggtcg	gtgcagaata	taattttatac	ttcctgaaat	540
caactttgtc	tattcatgaa	aatagctgct	ttttatttgc	ctttgtctca	ctttgaaat	600
atatgatcca	caggttacag	acttttccaa	taactacatt	tcaacttgt		649

<210> 443  
 <211> 346  
 <212> DNA  
 <213> Homo sapiens

<400> 443  
 acgtgggatt gaaatgcaca tacatgtttt tgctaagagc acatacattt cattctctctc 60  
 actttgtttca taacctcagc attgtcagat aacctcagtg agttaactca aagcctttta 120  
 ttatggaaag aactggcaca gttacatttg ccagtggcaa catccttaaa aattaataac 180  
 tgatgggtca cggacagatt tttgacctag ttcctttttc ttttagagca aaaagaactt 240  
 ttacctcggc atccagccca acccctaaag actgacaata tccttcaagc tcctttgaaa 300  
 gcaccctaaa cagccatttc cattttaata gttggatgcg gattgt 346

<210> 444  
 <211> 425  
 <212> DNA  
 <213> Homo sapiens

<400> 444  
 accaattttcc ttttacagta aaggggcttt tcctgttgct tgttgaaccg gttcccagct 60  
 gccattacc accaagccca aaagagtaaa ttcgtcctga tgaaggaaca aaagcagaag 120  
 tgtgctgocg tccacaagca atctcagtga caatgcttcc cataagttca aaaactttcc 180  
 ttgggtttat ttcatgactg gtagaattat ggcccaactg accataccct ccagctccaa 240  
 aagtaaacac tccaccttcc ttggttagag cagcagatg atcttctcca caacaaatat 300  
 aaactatfff ctgagatctt agtgacttta gtaaattagg aacataccta tcattttcat 360  
 cattaagacc tagctgacca aacttgttgc gtcccatcc aaagatagct ccagaaaggg 420  
 tgagt 425

<210> 445  
 <211> 210  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 1  
 <223> n = A,T,C or G

<400> 445  
 nactgtccca atataaaaca gtaattatftt gacctttgca ctgtttgtct ggtccttttc 60  
 agtttgattg catataaatg tggaacttga tagatctcta tatfttttaat gcacttgtga 120  
 taaactggca gcagggttag acattacttt caaagcttga ggtagaccga gtcagcatgc 180  
 tagacaggct tctctctcta accaaaactg 210

<210> 446  
 <211> 326  
 <212> DNA  
 <213> Homo sapiens

<400> 446  
 tcgaaagacc cctgtaaaag agcccaacag tgaaaatgta gatatcagca gtggaggagg 60  
 cgtgacaggc tggaagagca aatgctgctg agcattctcc tgttccatca gttgccatcc 120  
 actaccccgct tttctcttct tgctgcaaaa taaaccactc tgcccatttt taactctaaa 180

```

cagatatattt tgtttctcat cttaactatc caagccacct attttatttg ttctttcatc 240
tgtgactgct tgctgacttt atcataattt tcttcaaaca aaaaaatgta tagaaaaatc 300
atgtctgtga gttcattttt aaatgt                                     326

```

```

<210> 447
<211> 304
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 1, 3, 6, 31, 34, 35, 79
<223> n = A,T,C or G

```

```

<400> 447
nontcnaggt acatgctaga agtctgatgt ngtnngtaac acagaaacat acacagtctt 60
catattcaaa gtcttcacng ggatgtcggt ctgtaatttc ctgcgtttgg gtctcttcca 120
gaaacagctt tagcttcctg ctccgaaggc caaacacctt ggctgcttca tacagaagac 180
cttggtgggt gagtccattc tgcccaagtg ggttttcaag caggagagtg cccactgtcc 240
ccattaaaca ctcttgtggc tttgcattca ggagctgtag gttgatatac tgacaaggaa 300
gagt                                     304

```

```

<210> 448
<211> 203
<212> DNA
<213> Homo sapiens

```

```

<400> 448
acatgaaagc ggcaatgcgg taaaaagcga attcttacc aaggtcagaa ttttttatta 60
agcgcatatt cattagttgg acaaacaacc ttataaacc ttatgtcaaa ccatataatg 120
tgaagaatct ccatgggaga gatttttttt cacccttcag aattatcttt ttcccctaag 180
accttcatat gaatcttcct tgt                                     203

```

```

<210> 449
<211> 481
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 458
<223> n = A,T,C or G

```

```

<400> 449
acttgttcta taatactctg atgtttcctt aaattcctga acaacattct gtttactaaa 60
tttcttttct tcctttattc acaccaatt ccaccctata atagaagcta attatttcag 120
aaagcttttt agtgatcatt tattactttg tgtttactag atattaattc taagatgaat 180
tccttttagaa ttttagaaaa aattattcta gacaacaatc aaagtaaagg atacatccag 240
cattgaaacc ataagcgggc aagtctccag gttaaaagg ttgtatcctc cagcaatgcc 300
agactgtgtc agacatctct gcaattcatc agcatctatc tgcccatcct gtccagctac 360
agcagcaaag taaccataca gcggatcctg agtttgtccg ggaaacgcag gccctccggg 420
agccctcca tactgcatct tgagttgaag tcttatangt agaagctggg gatccttaga 480
g                                     481

```

<210> 450  
 <211> 296  
 <212> DNA  
 <213> Homo sapiens

<400> 450  
 acatggttta atacaacaac aaaaaaattt aatcaagtga aacgtaataa actgaacaat 60  
 aaacactcaa aacattttcc attggaaaca tgtaaagaca atatgagggt ttgttaccat 120  
 cttactgcaa ttttcttatg tgttactagt ctacataccc catgttttct gtaatcatgc 180  
 agatgtgaat ggaagtttga atgattaaat aaatgaaaag tccgtttact gcagggaatc 240  
 atttcacaag gcagccaaac cgggtttaga gaacaaaact attcaagaaa ttctcc 296

<210> 451  
 <211> 294  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 6, 20, 198  
 <223> n = A,T,C or G

<400> 451  
 acatgntcca aggcacgcgn ctgtgaactt cctctgagtg aaggcatccc ctccagcacc 60  
 tttcagcctg ctagtttagga cgacccgcgc ccacctcca ggacctccag ccttgcaactg 120  
 cctttcctct cttttaaata attcttcatt gagttcta atgtaaaaaa aaagtttact 180  
 gttaaagttt caaataanga aatttttttt aaaagtcctc agtaatctta ccagtaacaa 240  
 ttgttatggg cacatttgct tttggaagat ttcttttgta tgcattggat aagt 294

<210> 452  
 <211> 129  
 <212> DNA  
 <213> Homo sapiens

<400> 452  
 acttttagat cacaaatttg cctttaagta acacataata cacttaaggc agatttgcct 60  
 tacaggtggc ctacagcttct aaacaccact acactgcttt atataaaaaa caaaaatcac 120  
 atagaagag 129

<210> 453  
 <211> 151  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 9, 10, 44, 46, 47, 150  
 <223> n = A,T,C or G

<400> 453  
 actctcaann tgtatttagg tgccaacaca ttaggatca ttgngnnttc tcagtgaatt 60  
 gaccttttta tgagaataaa atgtctatct ctgaaatgtc cctatttctg gaaatgttcc 120  
 ttataactaaa gtccaacttg tgtggattan t 151



<210> 454  
 <211> 119  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 9  
 <223> n = A,T,C or G

<400> 454  
 tgctgatgna gcatgctttt taaatccttt aaaaacactc accatataaa cttgcatttg 60  
 agcttggtgtg ttcttttggg aatgtgtaga gttctccttt ctcgaaattg ccagtgtgt 119

<210> 455  
 <211> 515  
 <212> DNA  
 <213> Homo sapiens

<400> 455  
 accttataaa gttccttttc atccttctct gtcttcaact gacattcaag ttgttctctt 60  
 tcatgttggtg ccttcttgag ttgggccttt aaactgtcta attcggtttc tttttcaatt 120  
 gctttatgtg ttactgacac aatatcttcc tcaagctgat gggctttgga tgtagcatca 180  
 ctgaacctct tcttaaaactc ttcattttcc atttttaagc tttgtgttac ttcagtaaga 240  
 cccttttgtt ctgcttgacg ttggtcacat ctttctttct catgggtaag ttctctttcc 300  
 atttctccaa cttgttctcg aagttgtgct gtttctttt ccagaacggc aattaacttt 360  
 aacagttctt ctttttcttt catgggtttc tcaattttca actcaagaag gcctgctttt 420  
 gtggtcacca ctaacatgtc agaatttcct tcattctcca tagtaagcag ctcttcaact 480  
 ggagaagaag ctcgaaactg gaaaggtgta cctgc 515

<210> 456  
 <211> 350  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 310, 326  
 <223> n = A,T,C or G

<400> 456  
 actcccctcc ccaaataaga acctcaaaga ctgatccatt tcccctaggg cctgggccag 60  
 gagtagctca ctgctcactg ctgaggagaa aggcacaaga tataatgtca taagagcagg 120  
 acagtggctc agcctacaga gttccctata ggggaaagaa ggcaggaaat aggcgcaggg 180  
 tctggtcctg tccctgcacc accctgagca gctagtcttg ggaagggtt acaggccctg 240  
 ggccataggc tgctcgccat tctgctttcc tctcctgtt ctctccctgt gctgctccct 300  
 tttagccagn gctgagaaat gttcancacc tgaggcaaaa ctgccatagt 350

<210> 457  
 <211> 293  
 <212> DNA  
 <213> Homo sapiens

<400> 457

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gcagggccaa cagtcacagc agccctgacc agagcattcc tggagctcaa gtcctctac 60
aaagaggtgg acagagaaga cagcagagac catgggaccc cctcagccc ctccctgcag 120
attgcatgtc ccctggaagg aggtcctgct cacagcctca cttctaacct tctggaaccc 180
acccaccact gccaaagtca ctattgaatc cacgccattc aatgtcgcag aggggaagga 240
ggttcttcta ctgcgccaca acctgcccc aacatcgatt gggtacagct ggt 293
```

```
<210> 458
<211> 500
<212> DNA
<213> Homo sapiens
```

```
<400> 458
actagactcc agattaccct ttcttaataa atatctcagg gtaaggaaag aaagaaactg 60
tatagatata tttaaaatag agaatacttt ccaagcaata catgatgcct ttcttaaaag 120
actctaaaag aaaaagattc tgtaactctc ttttagcacc aaattattgt ttatcttgct 180
ggatatttta tatgaacagt gttaatttag atgcactaaa gcaaaggtag gcaaactaca 240
accatgagtc aaacatggcc acaccattc atttgcattt gtctaagctg gttttgcaact 300
acaactgcag agttgaatag atgcagcaga tcctttacag aaaaagtttt ctgacctcaa 360
ttctaaagta attgtagtag ggagctggag gactttcttt ccctttatgg taattttttg 420
agctacaaaa agagccttgc agaaatgggt gaagggatta atcttttaaa aataaatgct 480
atatattagg aaaataaaaa 500
```

```
<210> 459
<211> 394
<212> DNA
<213> Homo sapiens
```

```
<400> 459
ggtgaaaaga cttgattttt tgaaaggatt gtttatcaaa cacaattcta atctcttctc 60
ttatgtattt ttgtgcacta ggcgagttg tgtagcagtt gagtaatgct ggtagctgt 120
taagggtggc tggtgcagtg cagagtgtt ggctgtttcc tgttttctcc cgattgctcc 180
tgtgtaaaaga tgccttgctg tgcagaaaca aatggctgtc cagtttatta aaatgcctga 240
caactgcact tccagtcacc cgggccttgc atataaataa cggagcatac agtgagcaca 300
tctagctgat gataaataca cctttttttc cctcttcccc ctaaaaatgg taaatctgat 360
catacttaca tgtatgaact taacatggaa aatg 394
```

```
<210> 460
<211> 279
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 4
<223> n = A,T,C or G
```

```
<400> 460
actnccgatt gaagccccc ttcgtataat aattacatca caagacgtct tgcaactcatg 60
agctgtcccc acattaggtt taaaaacaga tgcaattccc ggacgtctaa accaaaccac 120
tttcaccgct acacgaccgg ggggtatacta cggatcaatgc tctgaaatct gtggagcaaa 180
ccacagtttc atgccatcg tcctagaatt aattccccta aaaatctttg aaatagggcc 240
cgtatttacc ctatagcacc ccctctagag caaaaaaaa 279
```

```
<210> 461
```

<211> 278  
 <212> DNA  
 <213> Homo sapiens

<400> 461  
 tttggacact aggaaaaaac cttgtagaga gagtaaaaaa ttttaacaccc atagtaggcc 60  
 taaaagcagc caccaattaa gaaagcggtc aagctcaaca cccactacct aaaaaatccc 120  
 aaacatataa ctgaactcct cacacccaat tggaccaatc tatcaccccta tagaagaact 180  
 aatgttagta taaagtaaca tgaaaacatt ctccctccgca taagcctgcg tcagattaaa 240  
 aactggact gacaattaac agccaatatc tacaatca 278

<210> 462  
 <211> 556  
 <212> DNA  
 <213> Homo sapiens

<400> 462  
 aacgtccaag ggggccacat cgatgatggg caggcgggag gtcttggtgg ttttgtattc 60  
 aatcactgtc ttgccccagg ctccgggtgtg actcgtgcag ccatcgacag tgacgctgta 120  
 ggtgaagcgg ctgttgccct cggcgcggtat ctcgatctcg ttggagccct ggaggagcag 180  
 ggccttcttg aggttgccag tctgctggtc catgtaggcc acgctgttct tgcagtggta 240  
 ggtgatgttc tgggaggcct cgggtggacat caggcgcagg aaggtcagct ggatggccac 300  
 atcggcaggg tcggagccct ggccgccata ctcgaaactgg aatccatcgg tcatgctctc 360  
 gccgaaccog acatgcctct tgtccttggg gttcttgctg atgtaccagt tcttctgggc 420  
 cacactgggc tgagtggggt acacgcaggt ctcaccagtc tccatgttgc agaagacttt 480  
 gatggcatcc aggttgccagc cttggttggg gtcaatccag tactctccac tcttccagtc 540  
 agagtggcac atcttg 556

<210> 463  
 <211> 659  
 <212> DNA  
 <213> Homo sapiens

<400> 463  
 cacactgtgc ccttccagtt gctggcccgg taaaaaggcc tgaacctcac cgaggatacc 60  
 tacaagcccc ggattttacac ctgccccacc tggagtgcct ttgtgacaga cagttcctgg 120  
 agtgcacgga agtcacaact ggtctatcag tccagacggg ggcctttggt caaatattct 180  
 tctgattact tccaagcccc ctctgactac agatactacc cctaccagtc cttccagact 240  
 ccacaacacc ccagcttccct cttccaggac aagagggtgt cctggtccct ggtctacctc 300  
 cccaccatcc agagctgctg gaactacggc ttctcctgct cctcggacga gctccctgtc 360  
 ctgggcctca ccaagtctgg cggctcagat cgcaccattg cctacgaaaa caaagccctg 420  
 atgctctgcg aagggtctct cgtggcagac gtcaccgatt tcgagggtcg gaaggctcg 480  
 attcccagtg ccctggacac caacagctcg aagagcacct cctccttccc ctgcccggca 540  
 gggcacttca acggcttccg cacggtcctc cgcccttctt acctgaccaa ctcctcaggt 600  
 gtggactaga cggcgtggcc caagggtggt gagaaccgga gaaccccagg acgcccctca 659

<210> 464  
 <211> 695  
 <212> DNA  
 <213> Homo sapiens

<400> 464  
 accttcattt gaccccatca gcttcagggc cttctttaca tttccactgg cctgatccat 60  
 gtatgcaatg ctatttttgc agtgatatgt gatgttctgg gaagctcggc tggagagaag 120

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tcgaaggaat gccagctgca catcaaggac atcttcagga agttcaggat tgccgtagct 180
aaactgaaaa ccaccatcca tggactctcc aaaccaaacg tgtttcttct cagcactaga 240
atctgtccac cagtgtttcc gtggaacatt caaaggattg gcacttatgc atgtttcccc 300
agtttccata ttacagaata ccttgatagc atccaatttg catccttggt taggggtcaac 360
ccagtattct ccaactctga gttcaggatg gcagaatttc aggtctctgc agtttctagc 420
gggggttttta cgagaacat caggactaat gaggttttct atttggtccat taacagactt 480
gagtgaagtc ataatctcat cgggtgttgat tttgaaatcc attggttcat ctccataata 540
cggggcaaaa ccgccagctt tttcacctcc aatcccagca atggcagcgg ctccaacacc 600
accacagcaa ggaccagggg caccaggagg tccaggaggg cctggttgcc ctgggtggcc 660
tggggagccc tcagatcttc tttcacctct gttac 695

```

<210> 465

<211> 73

<212> DNA

<213> Homo sapiens

<400> 465

```

cagggtccaga gctcccaggt ttccagggtg cagtccctcc agtcccagag ctcccagggt 60
ttcgggtttcc agt 73

```

<210> 466

<211> 507

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 15, 453

<223> n = A,T,C or G

<400> 466

```

agcactggca gaggnagcca aatatagtga tgtgcgccag agataagtat tctcctctcc 60
aagcatattg ctatacaaga ctttaaagac ttcataaaag ccaaacttgc agagtccctg 120
catggagtag ccaaggaaag tcggagccca tcttttagcc aaaccacgaa caccatcttc 180
tttaagtgtg actgagaatc cgttaaatat gcccttgtag ttttgggggt ccacctgcat 240
acggcatttc actaaatcca ggggaaccac agcagtgtgt gtcagaccac aacttaagac 300
cccaccaaag ccacacagtg cataatactt cgcgagacca aattcacaac tgtactcttc 360
cacggcgggc gctgccaggt tgcgagggcg gcggggctgg cccgtgggcc ctggggagct 420
gctgcggagg tccccgagac catcgtgcac canctgcaga tgtggcgtgt tgaagggggt 480
cgcccgcgcc aggtgcgcca cggacga 507

```

<210> 467

<211> 183

<212> DNA

<213> Homo sapiens

<400> 467

```

cctcatgagc taccggggcca gctctgtact gaggtcacc gtctttgtag gggcctacac 60
cttctgagga gcaggagga gccaccctcc ctgcagctac cctagctgag gagcctgttg 120
tgaggggcag aatgagaaag gcaataaagg gagaaagaaa aaaaaaaaaa aaaagggcgg 180
ccg 183

```

<210> 468

<211> 129

<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 29, 81, 84, 90, 108, 110, 123, 128  
<223> n = A,T,C or G

<400> 468  
gcgggccgcgt cgaccggcgc cgtcggggcnc cgggcccgggc catggagctg tggacgtgtc 60  
tggccgcgggc gctgctgttg ntgntgctgn tgggtgcagtt gagccgcncn gccgagttct 120  
acnccaang 129

<210> 469  
<211> 243  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 15  
<223> n = A,T,C or G

<400> 469  
gcgggccgcgt cgacnngcca tggagactgt ggcacagtag actgtagtgt gaggctcgcg 60  
ggggcagtggt ccatggaggc cgtgctgaac gagctgggtgt ctgtggagga cctgctgaag 120  
tttgaaaaga aatttcagtc tgagaaggca gcaggctcgg tgtccaagag cacgcagttt 180  
gagtacgcct ggtgcctggt gcggagcaag tacaatgatg acatccgtaa aggcacgtgt 240  
ctg 243

<210> 470  
<211> 452  
<212> DNA  
<213> Homo sapiens

<400> 470  
cctcaagtac gtccggcctg gtggtggggt cgagcccaac ttcattgctct tcgagaagtg 60  
cgaggtgaac ggtgcggggg cgcaccctct ctgcgccttc ctgcgggagg ccctgccagc 120  
tcccagcgac gacgccaccg cgcttatgac cgaccccaag ctcatcacct ggtctcoggt 180  
gtgtcgcaac gatgttgctt ggaactttga gaagttcctg gtgggcccctg acggtgtgcc 240  
cctacgcagg tacagccgcc gcttccagac cattgacatc gagcctgaca tcgaagccct 300  
gctgtctcaa gggtcagct gtgcctaggg cgccctcctt accccggctg cttggcagtt 360  
gcagtgtctg tgtctcgggg gggttttcat ctatgagggt gtttcctcta aacctacgag 420  
ggaggaacac ctgatcttac agaaaatacc ac 452

<210> 471  
<211> 168  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 18, 37  
<223> n = A,T,C or G

<400> 471  
 cttctccgct ctttctanga tctccgcctg gttcggncog cctgectcca ctctgcctc 60  
 taccatgtcc atcaggggtga cccagaagtc ctacaaggtg tccacctctg gcccccgggc 120  
 cttcagcagc cgctcctaca cgagtgggcc cggttccccgc atcagctc 168

<210> 472  
 <211> 479  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 71, 87, 182, 218, 288, 322, 358, 386, 407, 423, 429, 473,  
 479  
 <223> n = A,T,C or G

<400> 472  
 gccaggcgct cctctgtctg cccactcagt ggcaacaccc gggagctggt ttgtcctttg 60  
 tggagcctca ncagttccct ctttcanaac tctactgcaa gagccctgaa caggagccac 120  
 catgcagtgc ttcagcttca ttaagaccat gatgatcctc ttcaatttgc tcatctttct 180  
 gngtgggcga gccctggttg cagcgggcat ctgggtgnca atcgatgggg catcctttct 240  
 gaagatcttc gggccactgt cgtccactgc catgcagttt gtcaacgngg gctacttct 300  
 catgcagccc ggcgttggtg tntttgctct tggtttcctg ggctgctatg gtgctaanac 360  
 tgagagcaag tgtgccctcg tgacgntctt cttcatcctc ctctctntct tcattgctga 420  
 ggntgcagnt gctgaggtcc gccttggtgt acaccacaat ggctgagccc ttntctgaen 479

<210> 473  
 <211> 69  
 <212> DNA  
 <213> Homo sapiens

<400> 473  
 gagcgatgga gcgtgggtag ggagggtcca cagtgtccac tcgccgtgtg cgaaggttga 60  
 ctcggtagt 69

<210> 474  
 <211> 155  
 <212> DNA  
 <213> Homo sapiens

<400> 474  
 gccgccactg ccgggagagc tcgatgggct tctcctgcgc gccgcccgtt gtctggccga 60  
 gtccagagag ccgcggcgcc tcgttccgag gagccatcgc cgaagcccga ggccgggtcc 120  
 cgggttgggg actgcagggg aaggcagcgg tggcg 155

<210> 475  
 <211> 282  
 <212> DNA  
 <213> Homo sapiens

<400> 475  
 ggcttcgacg ttggccctgt ctgcttctct taaactccct ccatcccaac ctggctccct 60  
 cccacccaac caactttccc cccaaccggg aaacagacaa gcaacccaaa ctgaaccccc 120

tcaaaagcca aaaaatggga gacaatttca catggacttt ggaaaatatt tttttccttt 180  
gcattcatct ctcaaactta gtttttatct ttgaccaacc gaacatgacc aaaaaccaa 240  
agtgcattca accttaccaa aaaaaaaaaa aaagggcgcg cg 282

<210> 476  
<211> 434  
<212> DNA  
<213> Homo sapiens

<400> 476  
ctccaggaca gcgtccagct tgggtgctgt gaagacgaag tggagcggat ggttgtagaa 60  
acagtgatg gtgctgagcg gcgtgcagtc ttcgggatcc acgaaggcca agtccttgag 120  
gtagagcatg tccacgatgt tggagcgcgc ctctctgtac accgggatgc gcgtgtggcc 180  
gctctgcatg atgctggcca ggacgccgaa gtccagcacg gtgctggcgt ccagcatgaa 240  
gcagtcttcg aggggcgtga gcacgtcttc cacggtccgg cagcgcagca cgccttgcg 300  
gagatcgctg taggggtcgc cgccgcgcgc cgccagctcc agcaccgcgt ccgcagccg 360  
cccgggcgcg gccgccagct ccagcagctg cccacgggc agcgcgacgc gcagagtgcg 420  
caggacggcc aggc 434

<210> 477  
<211> 314  
<212> DNA  
<213> Homo sapiens

<400> 477  
ggcgggcgct agctggctcc gggcagctcg gccttggggg cttcggggcc ccgagacgcg 60  
gggcgtatga gtggggcgtg cgctccacgc ggaagtcgga gcctcctccc ctggataggg 120  
tgtacgagat ccctggactg gagcccatca cctttgcggg gaagatgcac ttctgtccct 180  
ggctggcgcg gccgatcttt ccgcctggg accgcggcta caaggacca aggttctacc 240  
gtcgcgcccc tcttcacgag catccgctgt acaaagacca ggccgtctat atctttcacc 300  
accgttgccg cctt 314

<210> 478  
<211> 317  
<212> DNA  
<213> Homo sapiens

<400> 478  
aacagagtga tcattccagt taagcggggc gaagagaata cagactatgt gaacgcatcc 60  
tttattgatg gtaaccggca gaaggactcc tatatcgcca gccaggggcc tcttctccac 120  
acaattgagg acttctggcg aatgatctgg gagtggaaat cctgctctat cgtgatgcta 180  
acagaactgg aggagagagg ccaggagaag tgtgccagc actggccatc tgatggactg 240  
gtgtcctatg gagatattac agtggaaactg aagaaggagg aggaatgtga gagctacacc 300  
gtccgagacc tcctggt 317

<210> 479  
<211> 171  
<212> DNA  
<213> Homo sapiens

<400> 479  
aggtgctttg ctagatgctg tgacaggtat gccaccaaca ctgctcacag cctttctgag 60  
gacaccagtg aaagaagcca cagctcttct tggcgatatt atactcactg agtcttaact 120  
tttcaccagg ggtgctcacc tctgccccta ttgggagagg tcataaaatg t 171

<210> 480  
 <211> 65  
 <212> DNA  
 <213> Homo sapiens

<400> 480  
 cccccagtgg aaggctccca ccctggtaga tgaacagccc ctggagaact acctggatat 60  
 ggagt 65

<210> 481  
 <211> 207  
 <212> DNA  
 <213> Homo sapiens

<400> 481  
 cacagcgtgc tctgcgggggt cactcccact ttgttagtga tgtgggttatc tcttcagatg 60  
 gccagtttgc cctctcaggc tcttgggatg gaacctgcg cctctgggat ctcacaacgg 120  
 gcaccaccac gaggcgattt gtgggccata ccaaggatgt gctgagtgtg gcctttctct 180  
 ctgacaaccg gcagattgtc tctggat 207

<210> 482  
 <211> 319  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 252, 258, 268  
 <223> n = A,T,C or G

<400> 482  
 cacactgtgc ccttcagtt gctggcccgg taaaaaggcc tgaacctcac cgaggatacc 60  
 tacaagcccc ggatttacac ctgcccacc tggagtgcct ttgtgacaga cagttcctgg 120  
 agtgcacgga agtcacaact ggtctatcag tccagacggg ggccttttgt caaatattct 180  
 tctgattact tccaagcccc ctctgactac agatactacc cctaccagtg cttccaaact 240  
 gcacaacacc cnagcttntc cttccagnac aagagggtgt cctggtcctt ggcctacctc 300  
 cccaccatcc agagctgct 319

<210> 483  
 <211> 233  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 212  
 <223> n = A,T,C or G

<400> 483  
 acaggcccag tggcgccctag ccttcagctg ctgggctctc ccgagcctgc cttagcccat 60  
 acaaccactt gatcacgcgg gcattgcgct ccaccaccga cacgccatag ggaacgcgct 120  
 cccgggcccg ctctcaaca gtcaccgagc tgcggcgga gcagccccct tcagagctgc 180  
 ccggcccagc actgggccct gccagggaca cnatatccga gctggcccgt gcc 233



<210> 484  
 <211> 194  
 <212> DNA  
 <213> Homo sapiens

<400> 484  
 agagcccttg ctgggggggtg cctgggagat ggggtaagaa gagctttcat ttgtctggta 60  
 gatagatagc atgtaagggg gtggttgtcc caggaggcag ctgctgacag gtttgctaca 120  
 cacagccccg gactgtgttg cctgggtgct cattcagaga ggggctatca tctgggagcc 180  
 tgtgcccctg ggtc 194

<210> 485  
 <211> 67  
 <212> DNA  
 <213> Homo sapiens

<400> 485  
 tocatatcca ggtagttctc caggggctgt tcacttacca ggggtgggagc ctcccactgg 60  
 gggaagt 67

<210> 486  
 <211> 70  
 <212> DNA  
 <213> Homo sapiens

<400> 486  
 taccgagtca accttcgcac acggcgagtg gacactgtgg accctcccta cccacgctcc 60  
 atcgctcagt 70

<210> 487  
 <211> 257  
 <212> DNA  
 <213> Homo sapiens

<400> 487  
 actcccgatt gaagccccca ttctgtataat aattacatca caagacgtct tgcactcatg 60  
 agctgtcccc acattaggct taaaaacaga tgcaattccc ggacgtctaa accaaaccac 120  
 tttcaccgct acaagaccgg gggatatacta cggtaaatgc tctgaaatct gtggagcaaa 180  
 ccacagtttc atgcccatcg tcctagaatt aattccccta aaaatctttg aaatagggcc 240  
 cgtatttacc ctatagt 257

<210> 488  
 <211> 378  
 <212> DNA  
 <213> Homo sapiens

<400> 488  
 actctgctat ggtgctggct tcctttaaac tcaggataga tgccagggtg gctccgtttc 60  
 cgtaagactg acactcgagc tggcatcag accagttcct cagcttcctg aagtaaccat 120  
 agcaattgga cttgtggtaa aaccatccag gacacagct gggctctcatg atgatatac 180  
 ccaggactcc tgttttggcc aggcagctca gcaataggag cagccgcatg cttctggaag 240  
 ccatcttcct cctaccctga ggatgtagct agtgcaagga tctcagagac cttactagcg 300  
 cttctttgaa actcctgggt tctccttgat ctgcaaatct gtytggaac caagactcta 360

agggccccctg ccttcttc

378

<210> 489

<211> 429

<212> DNA

<213> Homo sapiens

<400> 489

```
ccgagggtaca cagaagtttg aatcacaaaa cataattacc acaataaaac acagtgttca 60
agtatcttgg cagagcaatc tgccgcacaa actgcaaatt aaattaacta cacagactaa 120
aaactataca gcctaccatc aacagttgtg cattataaaa aggtagtttc tttccttttg 180
ttttaagtca ggaacaggta gattttttaa aatatatata caagctaaca cacacrgcta 240
tcagcactaa tgccccccc tcaacttttc ctttttctta tagaaaatgg aaagcttaca 300
atacctcttc srtymwrgmr scagrcctwc gagccwgcct grasagggk wgcmtgggar 360
magmtstgkc ctgaggttta gagccgcttt gtgcggggat ggtggaggct aggggtggggg 420
tgagaaaag
```

<210> 490

<211> 532

<212> DNA

<213> Homo sapiens

<400> 490

```
ttggattgcc acacgggtca cattgcatgc aagtttgctg agctgaagga aaagattgat 60
cgccgttctg gtaaaaagct ggaagatggc cctaaattct tgaagtctgg tgatgctgcc 120
attgttgata tggttcctgg caagcccatg tgtgttgaga gcttctcaga ctatccacct 180
ttgggtcgct ttgmkgctgt atatgagaca gacagytcgc gtgggtgtca tcaaagcagt 240
ggacaagaag gctgctggag cgggcaaggt caccaagtct gccagaaag ctcagaaggc 300
taaatagaata ttatccctaa tacctgccac cccactctta atcagtgggtg gaagaacggg 360
ctcagaactg tttgtttcaa ttggccattt aagtttagta gtaaaagact ggtaaatgat 420
aacaatgcat cgtaaaacct tcagaaggaa aggagaatgt tttgtggacc actttgggtt 480
tcttttttgc gtgtggcagt tttaagttat tagtttttaa aatcagtacc tc 532
```

<210> 491

<211> 567

<212> DNA

<213> Homo sapiens

<400> 491

```
tcgagggtaca aaagcccttc aaaaggagtt cagcttttat aaacaccaaa acactctctg 60
cctgtaaaaat gtttttgctg aaatttgtat cattaactct caaatttaca tcttcatggt 120
tgagatacgc ttttaggact gtctatgcat gtagactttg gtcaactctc tcctcctccc 180
tcaataaaatc agttaactta aaaaatatat tgtgaccatt tttataaaaat acatgttcat 240
aaaacagatc aacatattta gcttatacag aaataaaaatt aagtcaatcc actcacaaaag 300
aattttctatt ttgtaaaaat gtagcttgta tttcagtata ataaaatctg atgcaaaaaa 360
cctgcccggg cggcaagtgt gctggaattc tgcakatac catcacactg gcggscgctc 420
gagcatgcat cttaggggcc caattsgccc tatagcggcg cattaagcgc ggcgggkgtg 480
gtggwtacgc gcasygtgac cgmtacactt gccarcgccc tagmgcmcgc tcctttcgcw 540
ttcttccctt cctytctcgc cacgttc
```

<210> 492

<211> 422

<212> DNA

<213> Homo sapiens

```

<400> 492
agtgtgctgg aattcgccct tggccgcccg ggcaggtaca agactcaata atcacctgac 60
tgagctccaa ttaactgagg agaaacgggg tggaggagag ggctgggtgc tattcagact 120
tgataatgag attgatctgt cccatggaga gtgaaagtgc agttccactt ctgcctcctt 180
ctttccatgc tgtcctcatg ctctttatcc tcacttcctc agtcccttca aactcaaaa 240
tctgatttta tttctctctc acacgtatca ggggcagttt ctgaagttgc tgaggttgaa 300
ttttcttcac aaacctctat aaaacatcag cagagaacat ataaatacat tttgattagc 360
atacattgca aaatttctcc cacaatgtca ggggatgaaa gcaggtgggc cccactgaga 420
gt 422

```

```

<210> 493
<211> 318
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 283, 311
<223> n = A,T,C or G

```

```

<400> 493
agtgtgctgg aattcgccct tagcggccgc cctggcaggt aagctttttt tttttttttt 60
tttttttgat gattaacatc ttttaattcaa atgkaaaagt tcaatacaag ccattttatag 120
ggcttgagat ttgttggtct tttaaaaaca araaatgggg aaatgcaaca aaatgacott 180
tccacttttc aaaagctttc aagtaaagga tagatcatag ggccataaaa gatccattta 240
atsaaaccca cttttyaccc cctaccaatt gtcttacacc cantccacaa tcttaataca 300
tattcctgaa natttaca 318

```

```

<210> 494
<211> 360
<212> DNA
<213> Homo sapiens

```

```

<400> 494
accttttact acaacaagta aacatgcata ataaagtagg attcatccaa tgtctgacct 60
ttctttgcat caaaagaaca tttccggcca ggcacggtgg ctacgcctg taatcccagc 120
actttgggag gccgagccag gtggatcacg aggtcaggag atcgagacca gcctggctaa 180
catggtgaaa cctgtctct actaaaaata caaaaatgag ccgggcatgg tgggggggca 240
ccgtagtccc agctacttga gaggctgaga caggagaatg gcgtgaaccc gggggggcgga 300
gcttgtagtg agccgagatc gcgccactgc actccagcct gggtgacaga gtgagactcc 360

```

```

<210> 495
<211> 329
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 269
<223> n = A,T,C or G

```

```

<400> 495

```

```

gaggtctggg atggggcttc actgctgtga ctctctcctg ccaggggatt tggggctttc 60
ttgaaagaca gtccaagccc tggataatgc tttactttct gtgttgaagc actgtttggtt 120
gttttggttag tgactgatgt aaaacgggtt tcttgtgggg aggttacaga ggctgacttc 180
agagtggact tgtgtttttt ctttttaaaag aggcaagggt gggctggtgc tcacagctgt 240
aatcccagca ctttgagggt ggctgggant tcaagaccag cctggccaac atgtcagaac 300
tactaaaaat aaagaaatca gccatgaaa 329

```

```

<210> 496
<211> 292
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 166
<223> n = A,T,C or G

```

```

<400> 496
acctgggatg aggtgggtgg agctttgaat ctaccactat ccaggccaca cacctagaag 60
ctctggtttc attgtttcat tgatttcatt gttttgattg atgctgacct taggcagcag 120
agttttcaat gctctccagg tgtttctaaa gtgcagacaa gtttangacc gtgcttgagg 180
gtgaagggca ggactgtgat ggggaggggc aaatatgggg cccttggggg gcaggcaatg 240
gttttccttg acctgaatgg gggctctcac ggtgttgcac atacatatat gt 292

```

```

<210> 497
<211> 549
<212> DNA
<213> Homo sapiens

```

```

<400> 497
tcgaggtagc gaccatagag caagaatcaa gattctgcta actcctgcac agccccgtcc 60
tcttcctttc tgctagcctg gctaaatctg ctcatattt cagaggggaa gcctagcaaa 120
ctaagagtga taagggccct actacactgg cttttttagg cttagagaca gaaactttag 180
cattggccca gtagtggtct ctactcttaa atgtttgcc cgccatccct ttccacagta 240
tgcttcttcc ctctccctct gtctctggct gtctcgagca gtctagaaga gtgcatctcc 300
agcctatgaa acagctgggt ctttggccat aagaagtaaa gatttgaaga cagaaggaag 360
aaactcagga gtaagcttct agcccccttc agcttctaca cccttcggcc ctctctccat 420
tgcttgcacc ccaccccagc cactcaactc ctgcttgttt ttcctttggc catgggaagg 480
tttaccagta gaatccttgc taggttgatg tgggccatac attcctttaa taaaccattg 540
tgtacctgc 549

```

```

<210> 498
<211> 412
<212> DNA
<213> Homo sapiens

```

```

<400> 498
cttgaagctg ggagggtggag gttgcagtga gccgagatca caccactgta ctccagcctg 60
ggcaagagaa tgaaactctg tctcaaaaac aaaaataaaa acaaaaaaaa aactcttgct 120
attctggaaa tgtccacaat tcagtcttca cctgcctcca tcctcatgaa ggcaccaggg 180
gagcgcggtg ggctcacctg atttcttggg taggtctgtt ctgttccttt tttatgcggg 240
gtctgtcggt gggcactgct ccaatgtgag gggctccaggc tccatcgtag cctcttaacc 300
agctcagtgc caggaagggg ggactttgac aaaaaccac ctcaaactct cactccccaa 360
cctggagtgc aacctgtggc aagctcccta ggctctctgg gcctcagctt cc 412

```

<210> 499  
 <211> 447  
 <212> DNA  
 <213> Homo sapiens

<400> 499  
 actttttaaga atatactttg atttaatatg tatgttagta aaactccacg tgttgtaacc 60  
 attattatgt ttttgttttt aaaatgggga tgtaatacta ataaccacta cctataaaat 120  
 aaagcacaca attgttccgg cgattttaca aatctttttt tccagggtga aagtctacaa 180  
 aaattccaaa aaattagaga aactgaaaa catattaaag tttgacatcc aactttatag 240  
 tatttccatg ttaccctgaa agataactta aaaaatatgg ctttcttaga acaggccact 300  
 ctgctattat aaaaaattgg tgacagcaag aaattgtatc actgatatgt ggaatttttg 360  
 taaatagttt tctctccaaa tcattagaaa aatgttcaaa aataaaaaca aaataaaata 420  
 tgggtggtggt ccctaaacta ttttgaa 447

<210> 500  
 <211> 527  
 <212> DNA  
 <213> Homo sapiens

<400> 500  
 gtttgcttct tgcactctgat taactagaat atttctcttt ccccttttta atttgtgatg 60  
 tcacttgacc ccatttatgt gtaggagcac tacaccattg gtttccaata ctgcacacat 120  
 aagatacata cttgtgtgca gaaagtatct tcctccaggc ttgtaatacc cttcacatgg 180  
 aagattaatg agggaaatct ttatattctg tataaaaaaca aaagcaaatt tatatactaa 240  
 aatcatttgt ctaaaaattt aagttgtttt caaataaaaa ttaaaatgca tttctgatat 300  
 gcactgattg tgttgctctc agcttttttt gctctctatg agtgactact taagtcactt 360  
 gttgagaggg attatttact aattatatac ttctcattcc tgtaactcca ttccctttaa 420  
 acagtgggtga tatcaaatat acttccatcc attgaatggg gtattttttaa caacaacaaa 480  
 agtgatatac taaaaaatgt attgcttaag gcttattgaa tcatttt 527

<210> 501  
 <211> 304  
 <212> DNA  
 <213> Homo sapiens

<400> 501  
 gaggttgccg accaaagaga ccattgagca ggagaagcgg agtgaaattt cctaagatcc 60  
 tggaggattt cctacccccg tcctcttcga gaccccagtc gtgatgtgga ggaagagcca 120  
 cctgcaagat ggacacgagc cacaagctgc actgtgaacc tgggcactcc gcgccgatgc 180  
 caccggcctg tgggtctctg aagggaaccc cccccaatcg gactgccaaa ttctccggtt 240  
 tgccccggga tattatagaa aattatttgt atgaataatg aaaataaaac acacctcgtg 300  
 gcaa 304

<210> 502  
 <211> 425  
 <212> DNA  
 <213> Homo sapiens

<400> 502  
 actgattgtc atcctgactt tggcattggc agctcttata ttccgacgaa tatatctggc 60  
 aaacgaatac atatttgact ttgagttata atatggtttt gtgacttatg agctgtgact 120  
 caactgcttc attaaacatt ctgcattggg tataatctaa gaattgttta caaaaagatt 180





<213> Homo sapiens

<220>

<221> misc\_feature

<222> 246

<223> n = A,T,C or G

<400> 510

```

accaacttta tatcatatgt ttatacaatt taattttaaaa attcatttta aggaagacag 60
ataatttgaa agacttttgt ttttcttgac ttaattcatg aagtatcatt ttttgactga 120
gtctccattt acttcattct taatgattat tgtcatccct ttaaatctgt gcctttttct 180
tcttgagcga agctgtttga gtaaaccctg tgaagagtgt ttgtgtcttt tgtgcttttt 240
tgttgntatt aaaacaccaa cttaaacctta tagtcaagac aaggctctat gtttctgt 298

```

<210> 511

<211> 345

<212> DNA

<213> Homo sapiens

<400> 511

```

acagattttt gtatagctga taagattctc tgtagagaaa atacttttaa aaaatgcagg 60
ttgtagcttt ttgatgggct actcatacag ttagatttta cagcttctga tgttgaatgt 120
tcttaaatat ttaatgggtt ttttaatttc ttgtgtatgg tagcacagca aacttgtagg 180
aattagtatc aatagtaaat tttgggtttt ttaggatgtt gcatttcggt tttttaaaaa 240
aaattttgta ataaaattat gtatattatt tctattgtct ttgtcttaat atgotaagtt 300
aattttcact ttaaaaaagc catttgaaga cctaaaaaaa aaaaaa 345

```

<210> 512

<211> 459

<212> DNA

<213> Homo sapiens

<400> 512

```

acttattttca acaattctta gagatgctag ctagtgttga agctaaaaat agctttatatt 60
atgctgaatt gtgatttttt tatgccaaaa tttttttagt tctaatacatt gatgatagct 120
tggaataaaa taattatgcc atggcatttg acagttcatt attcctataa gaattaaatt 180
gagtttagag agaatgggtg tggtgagctg attattaaca gttactgaaa tcaaataattt 240
atttgttaca ttattccatt tgtatttttag gtttcctttt acattccttt tatatgcatt 300
ctgacattac atatttttta agactatgga aataatttaa agatttaagc tctgggtggat 360
gattatctgc taagtaagtc tgaaaatgta atattttgat aataactgtaa tatacctgtc 420
acacaaatgc ttttctaatt ttttaacctt gagtattgc 459

```

<210> 513

<211> 422

<212> DNA

<213> Homo sapiens

<400> 513

```

gccccgtagt gatgagcact gactgggttca ctggccacat tttagttott cataataata 60
ggccacaaaa gggctctgtg gtttgcttcc atgtgcaactg gccctcccc acccctaggg 120
ggcactcagt agctgctgag aaggcctgtc cacgaggctg ttggaacccc tccaataaat 180
acttagaggt agtgtatctg atgcttggtt tcgtggagaa aattgtattg gagaacttaa 240
aacatcacga atatttttaa taggatccgc agacacccaa aggagaagct tgggtctttc 300
caggtatttc caacttgagt tcagcccaaa gcctttgaaa ggaatgcatt accacatgac 360

```



cacatgctga gaccccatgg ggtctaacac gggacctaag aaagtctctg cagccagata 420  
gt 422

<210> 514  
<211> 326  
<212> DNA  
<213> Homo sapiens

<400> 514  
accagtatag taatatctgt atactaacta gggctttgta ttgtcaataa ttttttaata 60  
atTTTTtaat gaggtattta ccactgaaga aatatgataa tataaaacca tcaaatttta 120  
taattgagat gatactctgg aaaaacatgt catttcattt tcagaaaact ctttaagctct 180  
cttcagtctc tgtaatgttt ctgattgcat gtttcttcat gaaaagtatg ttgttgtttt 240  
gatagtaata ataataaatg taggctcagt tctttcccag gattttcatc aaaaagcttt 300  
aagtgcctaa ccctgcttgt ctctgt 326

<210> 515  
<211> 323  
<212> DNA  
<213> Homo sapiens

<400> 515  
accagatgta gctaggaaaa cccaaacgtt ccttggatcc tgagacagct ggtaagcacc 60  
caggccggct agactgccaa agagcagccc tgcagccagg gacggcacgc tgccctgcttt 120  
tacatagcca atgatccac cagaagcaac cagtgtgcg tagccaaagc caaaccaatg 180  
caagggcact actgagccag tgtcctgcat tttctcttc tctgtccaga caggagacta 240  
ccccaggcct gcaccggctc cacgaaggcc ccggctgtct acaagggcgc gcaagccgca 300  
ggaatgactg cgaggtgtcg ccg 323

<210> 516  
<211> 403  
<212> DNA  
<213> Homo sapiens

<400> 516  
accccgttgg ggttcatttc ctgcccaaga agctggatga ggcagtggct gaagcccacc 60  
tgggcaagct gaatgtgaag ttgaccaagc taactgagaa gcaagcccag tacttctaaa 120  
tactgagtga atacatcaca gattgcataa agtgcattgt tgcaagttgt tgtcatccat 180  
tcagctttct ctgtctgttg ttctggcaat ttcattattgt caaagattct gaaaacaatt 240  
ctaaataaat cctgccacca gtgtttctca taagtgtggc catatgtttt cattatttca 300  
aacattactg ttaaaccctt ggttcttaca tctaatttgc atctattgat gatacaggat 360  
aactcaaaga gaattgggaa ccctcctctc acccacaccc tgt 403

<210> 517  
<211> 360  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 335  
<223> n = A,T,C or G

<400> 517

```

acotgaacga agtcgcgggc aagcatggcg tgggccgtat tgacatcgtg gagaaccgct 60
tcattggaat gaagtcccga ggtatctacg agaccccagc aggcaccatc ctttaccatg 120
ctcattttaga catcgaggcc ttcaccatgg accgggaagt gcacaaaatc maacaaggcc 180
tgggcttgaa atttgctgag ctggtgtata ccggcttctg gcacagccct gagtgtgaat 240
ttgtccgcc aacatcgcg aagtcgcagg agcgagtga agggaaagt catgtgtccg 300
tcctcagggg ccaggtgtac ctgmccgggc ggcncctaac ggcgaattmt gcagatatcc 360

```

```

<210> 518
<211> 255
<212> DNA
<213> Homo sapiens

```

```

<400> 518
cataaatatt atactagcat ttaccatctc acttctagga atactagtat atcgctcaca 60
cctcatatcc tccctactat gcctagaagg aataatacta tcgctgttca ttatagctac 120
tctcataacc ctcaacaccc actccctctt agccaatatt gtgcctattg ccataactagt 180
ctttgcgcgc tgcgaagcag cgggtggcct agccctacta gtctcaatct ccaacacata 240
tggcctagac tacgt 255

```

```

<210> 519
<211> 449
<212> DNA
<213> Homo sapiens

```

```

<400> 519
accttccctc caattttgct gtgaacctga aatggcttta aattaatact cttatTTTTT 60
atttaattta attacataaa ttaaacctta ccatgaccaa attgtgttag gacggcctgc 120
tatctacagc acagtgtgtc atttgcagat ttgtggttac ctataccacg ctagggtgtt 180
tgacatgttt agtatttctg ctttacagtg ctgaattcca tatttttagaa gctatgaaag 240
tccttttatg aaaaagttac tgattgcttc tcagttatta ggaaaacagt tgtttcacaa 300
ttattatgta gatattgatc ccaaatatca tttttagtat atcttgtcga tctttaagtt 360
gttactattg tgttattcat gtctttaaat cagataccaa atatttttta ggaaagaaaa 420
atgttattac tgtcattagg ttggctttt 449

```

```

<210> 520
<211> 92
<212> DNA
<213> Homo sapiens

```

```

<400> 520
accccatca cagcagtcaa acagcctgag aaagtggcag ctaccaggca ggagatcttc 60
caggagcagt yggcaryagg gccagagatc cg 92

```

```

<210> 521
<211> 123
<212> DNA
<213> Homo sapiens

```

```

<400> 521
acagagggga caacaatgaa tcagaacaga tgctgagcca taggtctaaa taggatcctg 60
gaggctgcct gctgtgctgg gaggtatagg ggtcctgggg gcaggccagg gcagttgaca 120
ggt 123

```



<210> 526  
 <211> 479  
 <212> DNA  
 <213> Homo sapiens

<400> 526  
 actggagatg tatttgataa ccaagggtttt aggtaaattt tcaccagtat tagttctatt 60  
 tgcaaactga aaaatgttgt aggccttaata taaaataacc acattagtga acattatatt 120  
 tcttagaaga aaggccatat tttgctcctg cttctgtaaa aatattattt gtttgaagg 180  
 gaaataaatgg tagtgtgacc tttcacttaa ttccctactcc cttaatgtga gagagacaaa 240  
 atgagctgaa gaaggaaaat tctggagtta cactccacaa ccttgaacat actgacggac 300  
 atctctgttt tgacaacgat ttctccatgc caccatgct ctaatgcctt gtggatcacg 360  
 gacaaccttc tttgcacaag ctacagcatc agcgatgtta tcttgcagca aagcactgca 420  
 ggataaatga caggcattaa ctgctcctgg ggttttgcc aatttacacc agtagcggc 479

<210> 527  
 <211> 220  
 <212> DNA  
 <213> Homo sapiens

<400> 527  
 accaaattga aggggtttaga ggccctcaaa tgggcatcac tcataaaggc aattttcatg 60  
 gtttaatatata gaaattactc taatgtgaga acacaacatg ggaactattc aaaatacacc 120  
 tttctatgca aaattgagtt tgyatctatt ttagcatttt aaatgagcac tctgcaactg 180  
 agaccaaata tcaatcatct cttgagggtt tctactatgt 220

<210> 528  
 <211> 373  
 <212> DNA  
 <213> Homo sapiens

<400> 528  
 acamcatcga tgaaattcag acatacaatg taaagttgaa ataatcccaa attatatttac 60  
 attatattatg tatactttac aaataacaca aatatggaaa tgttttcttg gaaagctgtt 120  
 ggaactgtaa gcaactgcaac gtatgaaaga aacatattta gcaataaaaa atttaataat 180  
 atcctacaac tgaattagtt gcatatttat accattcaaa atcttgattt taacctcatt 240  
 cactcctttg aaaaatacat tcctcttttg ttctttttaa tgcaaaaatta gtggcagttg 300  
 cagcaaaaac gccgaaattc tataagaaaa aaactgattt accccaaaca tatcattcag 360  
 cacaactgc ggt 373

<210> 529  
 <211> 344  
 <212> DNA  
 <213> Homo sapiens

<400> 529  
 acattttctaa gtcaaact tgtgactttt gctttaattc catgaatgtt cctgcctcct 60  
 tgatatttgt atttattctt tttttctcta gagtagaggt ataatttgtt gatatttcag 120  
 aaatacagat aaatgattca aaaagtcaca gttaaggaga atcatgtttc tttgatcatg 180  
 aataactgat tagtaagtct tgcctatatt ttctgatag catatgacaa atgtttctaa 240  
 ggtaacaaga tgagaacaga taaagattgt gtggtgtttt ggatttggag agaaatattt 300  
 taatttttaa atgcagttac aaattataat gtattcatat ttgt 344

<210> 530  
 <211> 354  
 <212> DNA  
 <213> Homo sapiens

<400> 530  
 accattgctc tttcctagct aaccctagat atggcagctc tttaatgtac ctgagatcct 60  
 ggtgcacaac atagtgatct tcatgcgaac ttcagtgaag atttcataca ttggcctcat 120  
 gacccagagc tccttgagga cacatcacta tgtggattgt ggaggaaatt ccacagctat 180  
 ttaacaactg ctattgggtc ttccacacag cgcctgtaga agagagcaca gcataatgttc 240  
 ccaaggcctg agttctggac ctacccccac gtggtgtaag cagaggagga attgggttcac 300  
 ttaactccca gcaaacatcc tctgcccact taggaggaaa cacctcccta tggt 354

<210> 531  
 <211> 418  
 <212> DNA  
 <213> Homo sapiens

<400> 531  
 acacatccca tcttcaaatt taaaatcata ttgtcagttg tccaaagcag cttgaattta 60  
 aagtttgtgc tataaaattg tgcaaatatg ttaaggattg agaccacca atgcactact 120  
 gtaatatctc gcttcctaaa tttcttcac ctacagataa tagacaacaa gtctgagaaa 180  
 ctaaggctaa ccaaacttag atataaatcc taccaataaa atttttcagt ttttaagttt 240  
 acagtttgat ttaaaaacaa aacagaaaca aatttcaaaa taaatcacat cttctcttaa 300  
 aacttgcaa acccttcctt aactgtccaa gtatgagcat acactgccac tggctttaga 360  
 tactccaatt aaatgcacta ctctttcact ggtctgaatg aagtatggtg aaacaagt 418

<210> 532  
 <211> 583  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 497, 498  
 <223> n = A,T,C or G

<400> 532  
 cgtcccaaca attatattac taccactgac atgaccttcc aaaaaacaca taatttgaat 60  
 caacacaacc acccacagcc taattattag catcatccct ctactatctt ttaaccaaatt 120  
 caacaacaac ctatttagct gttccccaac cttttcctcc gacccccctaa caacccccct 180  
 cctaatacta actacctgac tctacccct cacaatcatg gcaagccaac gccacttata 240  
 cagtgaacca ctatcacgaa aaaaactcta cctctctata ctaatctccc taaaaatctc 300  
 cttaattata acattcacag ccacagaact aatcatattt tatatcttct tcgaaaccac 360  
 acttatcccc accttggtc tcatcaccg atgaggcaac cagccagaac gcctgaacgc 420  
 aggcacatac ttcctattct acaccctagt aggtccctt cccctaccca tcgcgactga 480  
 tttcactcac aacaccnnta ggctcactaa acattctact actcactctc actgcccag 540  
 aactatcaaa cttcctggcc aacaacttat atgactagct tac 583

<210> 533  
 <211> 529  
 <212> DNA  
 <213> Homo sapiens

<400> 533  
gaggtactta ataaccaagt ctcggaacac tgagccatca cctgcaatgt ttcctagagc 60  
ccagacagct tgttcaactga tgtgagcatg gggagatgcc aacagagaaa tgaatgctgg 120  
gatggcacct ccatctacca cagccttggg ttgttctgat gtcccagaag caatgttagt 180  
gagtgcccaa gcagattcaa actgaatggg actacaatca gttctgcccc agaaggacac 240  
aaatttcgga atcaaaccag cccggattat gttgtctatg gggggctggt tttctctgga 300  
aagtagtttc ctggcagctt gagtagcttg gagctgattt tccacattgc tgctatttat 360  
gcctttgaca atgtcatcaa cagaccaatt tacagtgcc tggttgttgc ggttttcctg 420  
cagcggagaa gtagcatcat caggaaatga gcttacattt ctcctcttca gcatctggtc 480  
atccttctta gctttcctca gctccacatt gacctctatt ctgcgacgc 529

<210> 534  
<211> 297  
<212> DNA  
<213> Homo sapiens

<400> 534  
actcattaat attatattgt tttgagaaa ccagaaatga ttctaagaaa taaacaataa 60  
taataaaaga tgtaattaat atactgtatc ccttttaagc caaagcacac tttttacctc 120  
aagactgttc tgacttttac attcttaatt tcctttgtcc aaaataggac cccattttta 180  
atagagtcca tttgaattga gttcataatc taaagtcact tttcccaca agatgttttc 240  
atttcagtat ataaactgct aagcggcaaa tgactaagtc agttataaag aatttgt 297

<210> 535  
<211> 373  
<212> DNA  
<213> Homo sapiens

<400> 535  
actttccagg gcacagcctg gacgaatgat gccaaacttt ccgggcacag acaaatcaac 60  
cacagttgag ccaaggcgac actcggggct ctggccatcc ccaatttgtc ccccatcaat 120  
aaccaaggac aactgaggcc agagatcctg gaactcctcg acattcagag aactggcctg 180  
ggagctgagg ttggcactag tgagagcaag cggacctca aacatctgag ccaagtcttg 240  
cataaaagca tgatcaggaa tccgaatgcc tacaagaggc gtaaaagggg ttaggtcctt 300  
gttgagctcc tccgagcgtt ccaccaccag ggtcactggt cctggcagta ggtctttcag 360  
gagccccca ggt 373

<210> 536  
<211> 254  
<212> DNA  
<213> Homo sapiens

<400> 536  
acatgctcca ttaaattaaa tgatcatcaa catttatcaa atattgtctt agttacagct 60  
tgatacctat ctaaattcat attcgagcaa aactaggccc cgaaagtgcg tttgtggctc 120  
tgacacctca gaagtgagtt caaaaaacct gcagctcatc agaactgcaa caataactct 180  
taatattttt ttgtgacaaa aaaaaaaatc aagtttactt caatatattt tcaaatattt 240  
actggaagta atgt 254

<210> 537  
<211> 449  
<212> DNA  
<213> Homo sapiens

&lt;400&gt; 537

```

acagacttgt ttttgagtgt tgagtagcag ggacaaaata agggaatgtt attttttaag 60
aaaattcatt ttcatgtgtg tctccttcct tttctgtgaa agtcctcata ctgagaaatt 120
tgtatatatt atattaaatc acttactatt gatttttgtt gtgattttca aagggtggatt 180
cccacagata aaatcttggc tattgcccaa aacatagtaa agggtcacgt gtgacttttt 240
ataataggaa gaaaattctg cctttgtgag tgcacatgtc cacatttcat ccctccttcc 300
ctcaaaaccc tagagagggg cattaaagaa ttgttgatgt atatgcaatg tctgttaagc 360
atgcactatg tatttcaccc tcatttattg ggtctgggac tgaagttttt agccagcatg 420
gacctaacct actttttggg ataaaattc 449

```

&lt;210&gt; 538

&lt;211&gt; 328

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 538

```

actcagcgcc agcatcgccc cacttgattt tggagggatc tcgctcctgg aagatgggtga 60
tgggattttcc attgatgaca agcttcccg tctcagcctt gacggtgcc aaggatttgc 120
catgggtgga atcatattgg aacatgtaaa ccatgtagtt gaggtcaatg aaggggtcat 180
tgatggcaac aatatccact ttaccagagt taaaagcagc cctggtgacc aggcgccc aa 240
tacgacaaa tccgttgact ccgaccttca ccttcccat ggtgtctgag cgatgtggct 300
oggctggcga cgcaaaagaa gatgcggc 328

```

&lt;210&gt; 539

&lt;211&gt; 506

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 539

```

tcgaggtact ttggcctctc tgggatagaa gttattcagc aggcacacaa cagaggcagt 60
tccagatttc aactgctcat cagatggcgg gaagatgaag acagatggtg cagccacagt 120
tcttttgatg tccaccttgg tcccctggcc gaacgtccag cggagagact gttggcagta 180
ataaatggca aaatcatcag gctgcaggct gctgatggtg agagtgaatt ctgtcccaga 240
tccactgccc ctgaaccttg atgggacccc actatgtaaa gtagacgcct tatagatcag 300
gagattaggg gctttccctg gcttctgctg ataccaggcc aaccaattat taatattctg 360
actggcccg caagtgatgg tgactctgtc tcctacagat gcagacaggg tgggaaggaga 420
ttgggtcatc tggatgtcac atttggcacc tgggagccag agcaagcagg agccccagga 480
gctgagcggg gacctcatg tccatg 506

```

&lt;210&gt; 540

&lt;211&gt; 519

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 540

```

tcgaggtacc tttccttgtt tcctagaatt cctaaggagg aacaacaaca aaatcgggggt 60
ttgttcagca attgcaccac atctctaaaa attaaaacat tattcagtaa gtgaagggtt 120
ctgataaaca agtggatcaa actgaatatt tccaattaag aaagttcaca ataatacagt 180
agtgtattat taccaatagg aaggccta atgcgactat ttttttttaa ggcaagaaaa 240
aagaaaacaa gtgcaagcta tgccaagctt tggatgaatgc tgtccttggc attgcaagta 300
taaagtttgt ttaaaaagaa aaggga aaaa ttaaaactaat gcttcaacaa ccacagaata 360
aggtttagga ctgcaaagaa agaggaaaa aagaaacatt attcctctcc aattatactg 420
ccaagcattc acaagtgagc tagggatcat aagggttaatt atacatttaa taagggtgtca 480
gggagataac tgctcatttc tttataaaaa ttaaaatgt 519

```

<210> 541  
 <211> 431  
 <212> DNA  
 <213> Homo sapiens

<400> 541  
 acttgaggct tttttgtttt aattgagaaa agactttgca attttttttt aggatgagcc 60  
 tctcctagac ttgacctaga atattacata ttcctccagt aagtaatact gaagagcaaa 120  
 agagaggcag gattgggggtc acagccgctt cttcagcatg gaccaagtgg gccttgggga 180  
 ttgcagcggt ctcgaagtgg ctgtaggact cgaatttaca gaaagccaca gaggtgcaac 240  
 ttgaggctct gctagcaagc caccagtgg gctattgggt aaccaccttt ctatacagga 300  
 gattggaatc tactttgtca tttatccacc acagtgacaa aggaaaagtg gtgccgttat 360  
 gcaatccatt taactcataa acatattact ctgagtaact ggccagccat tcatcggtatc 420  
 cttcattggg t 431

<210> 542  
 <211> 502  
 <212> DNA  
 <213> Homo sapiens

<400> 542  
 acaaaaaagg aaataagaaa gtagtgacag cctatccata caaaaaatcaa aaagacacaa 60  
 aggaagatag aatgagaaac agacctacaa gaatcattaa acaataaaat aacagtaatc 120  
 tttgtcttca gaaaataaat attttaaaaa tagacttgcc aatcaatata catacattga 180  
 atagagggat tatataaaat tttatatacc aagatccaac ttgcctctct tcaagagtca 240  
 cttgagatct agtagtgaaa tcagcctgaa agtggcaagt ggaagaagac attttaggca 300  
 aacatcaacc aaacgagagc agaagagatc aaaattgtat tatacaaaat acatcgtaag 360  
 tcaacaactc tcttatttta taaaatatac tttatgtcaa aattcacaag agaaaaaagg 420  
 tcattaaaca ataataaaga tatcatttat tgaaaatgta tgacaaatat gtgcatacat 480  
 atatttatat gtttgtgtct gt 502

<210> 543  
 <211> 452  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 403  
 <223> n = A,T,C or G

<400> 543  
 actacaaggc cagtaaaaca atgatacact ggaaaaaaaa aaatgcagca ataaacattt 60  
 gttaaaaaga ctgatagaat aaataaaact acaaaaaaaa aaaaatcata caaacccatt 120  
 ctgaaacccc aagaagtcct ggaatacaga aatgccctcc tccttacta tttcacagga 180  
 agcactgcag gctatttgc taaattgtc ctgggattac attctaaaat tagtaactgg 240  
 ttacagctcg gttgtagtgc acaattaaaa tcacactaac ttcatctgaa gtgtcattct 300  
 acagttttat ttacacaacc agtgaagggc atgttctaga ataccagctt taatcctttt 360  
 caaacattaa tataagaagc caaattgtaa tgatacagca aantgaggcc actggtatta 420  
 atacaggtag caaagggtcca catccaggtg gt 452

<210> 544  
 <211> 472



<212> DNA  
<213> Homo sapiens

<400> 544  
caatcattta taatagaaac accttgacca caagcccttg attgaacatt ttataatatt 60  
tcactacttt attaaaacaa ataatttccc ttgggttga ggggaggtga ttccataaat 120  
taattagaaa gccatcttta gcatattgct tatgtctgga tccatgtttc tgaggaaaaa 180  
gacattctca ggtgatgtat ttttttcatg cattagtatg catTTTTTaa aaataatgca 240  
tgtttcttta ataattaatt ttcatcttct ataagatgcc atgtgaagaa gttgtggaaa 300  
tgtagaataa aaagctaaag ctgccaaatt tctgttgaaac tcttaaaaac agctcatgtt 360  
tgtttgtcct ctcggttctg ggcttagcct atttgcaatg taatgaagct gcagggttct 420  
tgtatagcta aagcgttcaa tgcatttcac gtgctgtggt ggatgtgggt gc 472

<210> 545  
<211> 281  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 180  
<223> n = A,T,C or G

<400> 545  
acttaagcat ttccactttt ggaagaaaag tgtattagta ttttatattg catttcattt 60  
aaaaggacag tttttttttt ttttgtaaatt ccattcattg aaatggtttc taaactgtat 120  
aatgtaattt ggagcctatt tagtaatatg aattaaatgt cctatgtagt gctacaattt 180  
tygaattaga aagtgatcaa atgtmasaaa aaaattyaaa aattcagccc agaaaacaaa 240  
atagggtatt aaattagttt aatgtaaaag gaattwataa g 281

<210> 546  
<211> 423  
<212> DNA  
<213> Homo sapiens

<400> 546  
tcgagggtact gagacagaag attgtgtcta cataagcaca agttgtaaca tttcacaact 60  
tctaaaagga atgtcaacaa ttacaacgat catgcatacc atgggtcgata atcacatttt 120  
agaagcattt tcaaccattt ctaaagaaat gcttataaca ttgttatata tagaactact 180  
ttcaataaac tgcaaaacat tgatcgactt ttccagtatg agctacagtg tcaacacaaa 240  
agggaggcat aaatgtttta tttatgaaat cagaatggaa tattttactgt aaagaaaaat 300  
taaaaagctt tcaaataaag gccattatcg aaccaacgtg aagagcaca ctcgaacttt 360  
tgagttcatt catcttttaa agctgtcctc tcaataactt cagttctaag cactgaattc 420  
agt 423

<210> 547  
<211> 399  
<212> DNA  
<213> Homo sapiens

<400> 547  
gagggtctttt agcagggtctc aaaagttttc ttctaataara ywtcttggtg ttctatcatt 60  
cgtaggtgtt gaatttacca aactttttct atttcaatta ttacattttt actttgttca 120  
agtaatatgg tatcatatta aatgaacatt gcattgtgaa aataccctgc ttagtcatgg 180

```
tatgtaatca tccttataacc tttttgtatt ctttttttaa atatttctga gaatttctgt 240
gtctaaatth aaataggatg ttgttttgta atcatcttg gattcttttg tctcctttgg 300
gtattattgg ccaatagatg aattaagaaa tgttacctct tctactgctt gaagtttttg 360
tgagaaattg atgtttttca ttaagtgttg atgaaatgt 399
```

```
<210> 548
<211> 246
<212> DNA
<213> Homo sapiens
```

```
<400> 548
aaatgcatta taaatgthtt taattgtgtt ctgttttttg cagtctttta gtgccatgcc 60
aattgttctt atattctata gaagttcgct caaaatactc aacaggggaa taggcagcgg 120
acagtcagaa tgggttggaa tttggctttc taagaaaaac tttattttgc ataagcatgt 180
ggtcagatca ttttgtgcat atgcagcctg gattggatgt taagtaaatg cttgttcagt 240
gccgggt 246
```

```
<210> 549
<211> 413
<212> DNA
<213> Homo sapiens
```

```
<400> 549
acaaactggg attttatact gttccaatgc cagtaatcaa tttattttct tcattaaaat 60
aatatacaca gaatgtattg ttagttcgat tccttcaaat tttatacata tttactttct 120
gttaaagaga aaaggataaa atggtataaa aaaagataaa gctattaatt aagcacgaga 180
gagaagataa atggatattt tccctgtgtg aggctaagac agaagcaaat ctcgttaaga 240
aaaatgccac ccacacaaca ggaaatttat ccaaaacaaa acaaaagcag ttatagaacc 300
ccttctctac catcagaagt aatttcacag caataaactt attggttaca acagacatac 360
ttgaacagtt aaggatggga agaaaggctt aagatatcac caaattaaac cgt 413
```

```
<210> 550
<211> 215
<212> DNA
<213> Homo sapiens
```

```
<400> 550
acataagggt caaagtttcc tttccttttt ttatttattt tatattttgc aatgtttttt 60
ttccataata ttttaagtttt tcgatgttta gatatttttc ttcggtgaag cacaagtwtc 120
ttttcatggy ccctgakcaa ttttaaacag ttggaacacc ggtggcactg ataactgcty 180
tctgggcagc ctcttttagct tgggggggctb gtagg 215
```

```
<210> 551
<211> 175
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 154
<223> n = A,T,C or G
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<400> 551
ggcggaggag cggtaactac cccggctgcg cacagctcgg cgctccttcc cgctccctca 60
```

cacaccggcc tcagcccgca ccggcagtas aagatggtga aagaaacaac ttactacgat 120  
gttttggggg tyaaacccaa tgctactcat gaanaattga aaaaygctta tmmga 175

<210> 552  
<211> 298  
<212> DNA  
<213> Homo sapiens

<400> 552  
acagtgtata ctatccccac caaaggaaaa aaacattaag agcaaaacaa ggggtggggg 60  
gtgggaatat tgctaaagaa aattctaata agagttatct ataattatag cttttattta 120  
ttatatcttc attcaatcat ttattcaciaa ttagtctaatt tgcattcttg atgaataact 180  
gacttcagca aaggagtcaa tccactaagc aaagttcatt tatttttcat gatgttcttc 240  
tttcgatctt gagtctttac tctcctggat tcccaagaga actgcattag cctctagt 298

<210> 553  
<211> 437  
<212> DNA  
<213> Homo sapiens

<400> 553  
yacaatggct taagcaaato gctttagttt tttttctatt taagatttag gacagactac 60  
tcgtctaaaa ttcactatth acagagaagg tcctagggaa caggataact tatttaggth 120  
tagctctcat aatacaatat ccataatggc tttagaagaa tgtaaataaa taacattggt 180  
aaacagcgta tactgatatt ttctgacaaa ctcatthtct taacatcatg ctgagcaatc 240  
aagaggattc ctctatatat tttaaatttt aatttattct atttcctgat tcacaaactc 300  
ttgctccatg ttaaagcagt tatcaccaat agaacctatg agaaccagtg cccatggaaa 360  
ctaacagct tgthttttta atcccctatt aaaactcggg tgaacttgat atatgcatgg 420  
ttgaaatatg cgtgggt 437

<210> 554  
<211> 575  
<212> DNA  
<213> Homo sapiens

<400> 554  
ycgaggtact tttgacaaca tttatctgca tgtccagatc agcaatgagt cggcaattga 60  
cttctacagg aagtttggtc ttgagattat tgagacaaag aagaactact ataagaggat 120  
agagcccgca gatgctcatg tgctgcagaa aaacctcaaa gttccttctg gtcagaatgc 180  
agatgtgcaa aagacagaca actgaacaaa ttacaaatga actttcttgc acttgcttgt 240  
cgccaaataa aagagaggcc cattgattcc tccccacccc caacactttt cttttaaagc 300  
ttttctccct ccttgttctt gtttttcttt cttcctttcc ttttctctga gagtthtaat 360  
actttcaagg actttaaaaa aataatcatg tttgaattgt tttctcttat ttttgtgagg 420  
tggtttgaag gaaggacaag gtagatctgt ttagttttgc agttgaagtt agatggctct 480  
aaacatttaa ttgtcaaata atttcaaatt taatgtcctg ctttcacatt gaagggcaga 540  
gctacaaaa cattgtatat ttcaaaagac aaaaa 575

<210> 555  
<211> 226  
<212> DNA  
<213> Homo sapiens

<400> 555  
accgaaccat gaccaccctt ggcaagagcc ttcatgcacc tagcaagtag tcacagcatg 60



cataatacat gttataaaca tatatacagt aaatgttttg gtagcaatac agaccatgca 180  
 ttggtctttg tgt 193

<210> 560  
 <211> 125  
 <212> DNA  
 <213> Homo sapiens

<400> 560  
 acacaattat tctcactctc cacagaaagg ctgcttaact tctcatctgg wggwgggaag 60  
 cactaaaatc ctgattttta cagaatagta gkaaaaatgc ctcagtgatt taagttgaaa 120  
 gcagt 125

<210> 561  
 <211> 325  
 <212> DNA  
 <213> Homo sapiens

<400> 561  
 ccgaggtacc acggcctcag agtcacagct ttgtgacatt agggggcaat ctccagcttt 60  
 acgtttttaga agacagtttg ttttttgatg tatattttta atatccccag attaaagaaa 120  
 actcagggca agtaacacac taaaagggcc tttaacaattt ttttcttgct gttattttga 180  
 gatgcattctg ttgcaaaata tgtcaatgtt agaaatcaag ctcccttcata tagggataga 240  
 tcatttgaaa tagattttctc tcaagaataa tccaattatt acttttttagt gtttgcataa 300  
 attcactcca gaagtcattcc acagt 325

<210> 562  
 <211> 303  
 <212> DNA  
 <213> Homo sapiens

<400> 562  
 accagatgga aatgatattt gcttcactcc attttgaatt totgcctgaa ttagctcttg 60  
 tttcagttct tcaattttctt tcttcagttt agcattttca actcgaagtt tottctcttc 120  
 cctcaaagtt gcctgcaaaa ttgctttctc cttaagtaga gaaacttgct gcttaagata 180  
 ttcaatgatt tgatctgcct ctgcaccctt ctgctccagt ctcttcagaa cagcatcatt 240  
 atttgccatt tttgccaaga gacggcagaa aatcatgaag cggaggacca cgggttccga 300  
 gac 303

<210> 563  
 <211> 279  
 <212> DNA  
 <213> Homo sapiens

<400> 563  
 tcgaggtaca cagtcattga agactctccg gaattcagat ttgaaaccat atattatctt 60  
 cattgcaccc ccttcacaag aaagacttcg ggcattattg gccaaagaag gcaagaatcc 120  
 aaagcctgaa gagttgagag aaatcattga gaagacaaga gagatggagc agaacaatgg 180  
 ccactacttt gatacggaac ttgtgaattc cgatcttgat aaagcctatc aggaattgct 240  
 taggttaatt aacaaacttg atactgaacc tcagtgggt 279

<210> 564  
 <211> 427  
 <212> DNA

<213> Homo sapiens

<400> 564

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ccgagggtact gtgtagtggt atcagtggtta aaaatggaag atcattatga agaaacaatt 60
tgtcatttgg gtatatctgt ttctatagga caaggatttg tgtctaaata ttccttactt 120
gtatctcaga ggactatctg ttaaataaatt gatcttaatg ccagcataag aaatcaaggg 180
aactatttct cagacatttc tttctctaaa ttaagtaggg tttcagggtc caagtttaca 240
ttgagagaac tatgtttacct gggagagaat gtaaattttt ctaattccca aacaaaacca 300
ctaatttcta ggaaacattt attgtttata tgcagatcct agagacttct atttcagtgc 360
ggatcaacaa cttcaaaaat atacagcctc ctattttattt acaataatat ttacatacaa 420
atgaagt                                           427
```

<210> 565

<211> 214

<212> DNA

<213> Homo sapiens

<400> 565

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tgcagggtact ggggtcttttc cagccaggcc tgcaacgggtg accttaatcc cagctcgccct 60
catgacatct acagggatga ccgtctccat ttctctgtct ccttttagcca ggatgaccag 120
agctcttttg gaagccattt ttatgtttata tgtttacaag cccacacca ggctgaaaat 180
gaacgcacgc cagcacgcac gcgcgcgcgtc cggc                                           214
```

<210> 566

<211> 382

<212> DNA

<213> Homo sapiens

<400> 566

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ccgagggtact tttagttttt tcacataact ctctaaaggc cttttcaaaa agtctctttc 60
actggcatca tctactagaa caatttcttc tatcatgtgt cttggtgagc gattaatgac 120
actatggaca gttcgcagaa gtgtgctcca agcctcattg tggaaaacaa tcaccacact 180
tggtgtagga agattatctg gatacacctt tgttttacac ctttctaacc taacatctgg 240
taaagatctg ttgagtgcac tcatctcact tgccattaaa ttgaactgat tgattttaaa 300
catctctttc atcttttctt gatcctcttt aggaatgacg actggtttcc ccatttctcc 360
aggaccttca tgaggctttt gt                                           382
```

<210> 567

<211> 271

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 168

<223> n = A,T,C or G

<400> 567

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cgagggtacaa ttaccaccca ctggagggtga ctgagagagg acccccagag ggtgtctcca 60
tcttccctat ttattttcag cccttgaggg cttcattgta gatcaaagcc aaggccccc 120
ggaagggtgac atactcctgg aagttcacct cctggtcctt gttccggncc aagtcttcca 180
tcagccttgc aatttcagca tctgcagct tcgagccaat ggtgagctcc ttctggatca 240
gtccttcag ctccttcttg ctcagggtgt g                                           271
```

<210> 568  
 <211> 340  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 326  
 <223> n = A,T,C or G

<400> 568  
 cgaggtgcag tgtatattcc tttgttgtga atccaaatct tttcatagg taatgacaga 60  
 tgccttaatg tgaagcttat ttataatagc aataaaccta actggatttg gatgaagaag 120  
 tcttaatact gacatactgg atttttaatg cactggtttg ttatttggtt ttctatctct 180  
 tttccaggc ctccagggtg cacatttatt tattatgttc aatactttgg ttcttagttc 240  
 ttaaagaatc aagaagttgt gtaatctttt aaaaatatta tcttgcagat aaagaaaaaa 300  
 attaagagtg tgtttacaac tgtttntctt tttttacagt 340

<210> 569  
 <211> 156  
 <212> DNA  
 <213> Homo sapiens

<400> 569  
 gccaggtaaa ccaagacttg gtctcagtga agaaattcca gaggtcaccg gcaaagaagt 60  
 tcccttctca tcactttcat ctacgtattt aaagatatat acagttgtac agtttgctct 120  
 gatgttggca ttttatgaag agacctttgc agatac 156

<210> 570  
 <211> 216  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 176  
 <223> n = A,T,C or G

<400> 570  
 acagtactca gtatatctga gataaactct ataatgtttt ggataaaaat aacattccaa 60  
 tcactattgt atatattgtc atgtattttt taaattaaag atgtctagtt gctttttata 120  
 agaccaagaa ggagaaaatc cgacaacctg gaaagaattt tggtttcact gcttgnatga 180  
 tggttcccat tcatacccta taaatctcta acaaga 216

<210> 571  
 <211> 163  
 <212> DNA  
 <213> Homo sapiens

<400> 571  
 tgcaggtttt gtaatccaag gtcttgacta aaagcaaaaa tacacggcat agattgcaac 60  
 agcaaagaag tgtccaatta aaactagagg gttaggagac aatacagaaa gcagcccaac 120  
 aggaccgcca acacattcgc caccaagttt tgaaataaag aaa 163

<400>	575					
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agtacttcag	acaaacagaa	ataaaagagg	acactgtgac	tatagccaag	gaacttttgc	120
gtatagctga	taagggagggt	tgctcatctcc	accagatgtg	ggtttatgtcc	ttacctgctt	180
gacagcctgc	aaggtcattg	gcaagatttga	atgaatgggc	ccacgggggc	aaagcaagct	240
taqgaaagcc	agtaaatgcc	caacctatta	gaataaggga	qaagaattag	aatacagggg	300





```

ggaataatca gctcttctgg cccacaagta ggaatgatca atgagaactt aacttagtcc 60
tttatttgagg gatttttttca tcaaacaaaa atttcttgaa ttggggagac cacttccctg 120
taactccagt attgccccct ctcaactttag catatattaa ttagcagggtt gggctagaga 180
aatcagctgc tatgcggggtt gattattatt attatttcta atccttttcc ttatttgcct 240
tctactcccc ttaatctaatt ctaaaagctc tgttccatgc aactggagtt ccttatccct 300
ctcttccccct tcccttatat attgaggcta tggggtagga gaaaagtgc caaccacca 360
ccccctttac tcgtgcatta aaattttctta tttacccttt tcc 403

```

<210> 580

<211> 403

<212> DNA

<213> Homo sapiens

<400> 580

```

ggaataatca gctcttctgg cccacaagta ggaatgatca atgagaactt aacttagtcc 60
tttatttgagg gatttttttca tcaaacaaaa atttcttgaa ttggggagac cacttccctg 120
taactccagt attgccccct ctcaactttag catatattaa ttagcagggtt gggctagaga 180
aatcagctgc tatgcggggtt gattattatt attatttcta atccttttcc ttatttgcct 240
tctactcccc ttaatctaatt ctaaaagctc tgttccatgc aactggagtt ccttatccct 300
ctcttccccct tcccttatat attgaggcta tggggtagga gaaaagtgc caaccacca 360
ccccctttac tcgtgcatta aaattttctta tttacccttt tcc 403

```

<210> 581

<211> 432

<212> DNA

<213> Homo sapiens

<400> 581

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acctgataaa agttaataat ctcttggttag gaaagctgtc cattaataag gccagtcttc 60
agcaaaacta aaaccatttt gtctgttttag ctttcttagt ctgacaacgc aatactgttg 120
aaccacagtc aaatataatg acaacattgg atggatagat cagtaccatt gggtacagct 180
gttaaacagg ttctgttcttg gcgccacata aaaacaagcc aataacatcg aataaatcat 240
ggcttttttt ttctttatca caattcactt aagtgatgtt aattatggtc cttgtcaaac 300
acgttttgta aaggctatctt acagtgtaca tggctgagca tgcactatct atagttacaa 360
agatacctgc cagtttatta caatagaata cacagtgtct aaatgggtgaa ctctcccatc 420
ttaatatata tt 432

```

<210> 582

<211> 215

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 121, 131, 142, 144, 147, 156, 160, 174, 178, 184, 194, 206

<223> n = A,T,C or G

<400> 582

```

gtttatttca gctttactta aaatttttagt ttcaaatgaa atgaaatgtg aactgaagc 60
ataagaacac aactgaagac tgcaaacac ctaattcatt ttcccagggtt gcttaagcct 120
ncaagcacca ntcaaataat gnantcnatt aaaagnaggn ctttcccatt tgtngcngc 180
ttcngaattg aacntattta aaaccntcaa tttct 215

```

<210> 583

<211> 426  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 408  
 <223> n = A,T,C or G

<400> 583  
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 attgatcggg ataaggctca ctctcccgc ccccaaagt gttgatcggt ggaacgagaa 120  
 aagggccatg ttcggagtgt atgacaacat cgggacctg ggaaacttg aaaagcacc 180  
 caaagaactg atcagggggc ccatatggct tcgagggttg aaagggaatg aattgcaacg 240  
 ttgtatccga aagaggaaaa tggttggaag tagaatgttc gctgatgacc tgcacaacct 300  
 taataaacgc atccgctatc tctacaaaca ctttaaccga catgggaagt ttcgatagaa 360  
 gagaaagctg agaacttcgg aaaaggctca tctgtcacc tggagaangg aaactgtact 420  
 tttccc 426

<210> 584  
 <211> 431  
 <212> DNA  
 <213> Homo sapiens

<400> 584  
 cactgttgct gttttcagat acaccagaag agggcatcag atctcattat ggggtggttg 60  
 gagccaccat gtggttgctg ggatttgaac tcaggacctt cggaagaaca gtcagtgtc 120  
 ttaaccactg agccatctct ccagcccaga tttccttttg atggtgaagc attttaattt 180  
 taccattttg ctttgaaagg gcactgctct atgttctggc actatoggta ttctggactc 240  
 ctcttcgtaa aacatttctt tataacaaaa ggtgcactta cttttatttc ggtgtgtgtt 300  
 ttgcctgcac gaacgacttg acatctcaag cctacctggt gtctggagag gcccgaaacg 360  
 gatgtcagat gccctagaac tagagatacc gaccgttggt cgctaccatc tgggtgctgg 420  
 gaattgaact a 431

<210> 585  
 <211> 412  
 <212> DNA  
 <213> Homo sapiens

<400> 585  
 aagagagaaa gagaacatth ttataccaag gagggattga ctttcagaaa agagtagact 60  
 tctctctcct cccttcctcc aaaaaaagaa gttggaaacc ttctgttttt gtgtgtgtgt 120  
 ttttggttgt tctttgtttg tttttgtttt tgagatggag tctcactctg tcaccacgc 180  
 tactgcagtc agcctgggtg acagagtaag attctgtctc aaaagaaaaa aaaagacaga 240  
 aaagaaatgg actctgatgg aaaagatgtg tacaaggctg attatactaa gcagagggat 300  
 atttaaataa atgctaagaa gagaggcagg tgaagctcca ggggagccat ctttcccaaa 360  
 tgttcactta aattttcagc ggtttgggta tgccagatgg tgaacctagg ta 412

<210> 586  
 <211> 431  
 <212> DNA  
 <213> Homo sapiens

<400> 586

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aagaaaaggg agccaagaag aaagtgggtg atccattttc taagaaagat tggatatgatg 60
tgaaagcacc tgctatgttc aatataagaa atattggaaa gacgctcgtc accaggaccc 120
aaggaaccaa aattgcatct gatggctctca agggctcgtgt gtttgaagtg agtcttgctg 180
atttgcagaa tgatgaagtt gcatttagaa aattcaagct gattactgaa gatgttcagg 240
gtaaaaactg cctgactaac ttccatggca tggatcttac ccgtgacaaa atgtgttcca 300
tgggtcaaaaa atggcagaca atgattgaag ctacagttga tgtcaagact accgatgggt 360
acttgcttcg tctgttctgt gttgggttta ctaaaaaacg caacaatcag atacggaaga 420
cctcttatgc t                                     431

```

<210> 587

<211> 132

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 90, 128

<223> n = A,T,C or G

<400> 587

```

aactttccca tgggtcaaagg aaaaacaagc aggagttgag tggctggggg ggggtgcagg 60
caatggagag agggcataag ggtgtagaan ctgaaggggg ctagaagctt actcctgagc 120
ttcttacntc cg                                     132

```

<210> 588

<211> 425

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 13, 32, 47, 53, 56, 70, 72, 102, 128, 129, 165, 190, 420

<223> n = A,T,C or G

<400> 588

```

gggcttcttc aangaacctc agctgaaacc tntgggggat tactganttg atntgnccac 60
cagaacaggn gngctcgctt ttgttctgaa atcaaatacct cnaaagaccg ggagaagggg 120
tcacccannc gtggatcggt ggcatgtgtg gaaaagggaa accgnaacgg cccggatcat 180
tgacaagccn cgaagttatt gaagtcctgc ctcgtagggc cacagctgct tgttcttgct 240
cctgacagtt caaatgcctc ctttgagcct agctcgtag atgaaagaac agaagttgtt 300
tggaccttag agccattatc cacaatcacg gatggttctc aagagttgat tgtaagaaat 360
ttccaaagaa ggctgcctgc atagtgggtc cggtgcctt ttctaggtga ttggaatcan 420
cccat                                             425

```

<210> 589

<211> 425

<212> DNA

<213> Homo sapiens

<400> 589

```

caacagttat tttattagga tgtcagccct gggccagag tgagagatag ggacagggga 60
cagcccagcg aggtcgggtc gggggctact ccaggatgtt ccaaccacag gggcagcatc 120
tcctccactc cacatgctgg ccaagggcac agagctgccg tatcgctgc caagggggtg 180
gctcaatgct gctgccttgg tcctgtatgg gcccggggtg ccgagaacag acagcaagcc 240

```

tcaggcgccg gtcctttgag cttttcttgat ttcctcagag agcgccctcct tcagctctgc 300  
 gtaggcctgg tccaggctgt cgtaaagatg gaccacatca aacaggccgg gctccttgct 360  
 gctctccatg tcggcctggg cagcagccag ccgcttcacc aggctctcct cggtttcagt 420  
 gttgc 425

<210> 590  
 <211> 425  
 <212> DNA  
 <213> Homo sapiens

<400> 590  
 acaagtatac atataatcta gataagggct gtaatgtttc ctaatattaa ttactgtact 60  
 taaaaattta caggacatga acataaataa agctgtttta aactggcaaa cgtagtaata 120  
 gtctgtcatt cagtacaagg tatatttatg ttattttccaa agccatcacc ctaaaatcct 180  
 aagttgccac tcttaaaacc taaaaataat gtcgaaaact aaagtcataa atacatgtat 240  
 acatacattt gcatattttac acttatgcag aaatcatcaa tatactagag cccagcttta 300  
 acactgtcct tcagtttcac acagaaggac ccctaataac tgtaaatata taaatatgtc 360  
 aggttaaagg gaaaagggtg tcagggcact tcttgctctc tctgtcccat aacctacctc 420  
 cacco 425

<210> 591  
 <211> 425  
 <212> DNA  
 <213> Homo sapiens

<400> 591  
 aagtatgtat gtacaagact caagtaaata gaaaggcagc tttcaatcac aaatcagttt 60  
 ttcagatttt actgtggaag catatttaat gcacacattt gaatgttaca cataaataat 120  
 ttttaacgatg gagtccaagt tctggatttt acattagatc tgcatatata agacacttgt 180  
 ggtcaaatat caagattggg aaagccagtt tcaagctgct tatattttga gtacagggtt 240  
 cactattaca aatatatgat gttaaaactaa caaactcatg accttcaaag atgtcttcgt 300  
 cccacgcaca cacatttgta atttgtgtcc atttgtctatt tcccttcttc tataatcttc 360  
 aaattatata gttatgcatt gagttcccta tgcatctcac ccatctcctt tatctcagcc 420  
 ttctc 425

<210> 592  
 <211> 299  
 <212> DNA  
 <213> Homo sapiens

<400> 592  
 agtgaaaatg ggttggtttt tgtcttcgac gctcagggtc tgggcgcctc gcatttgcag 60  
 tctgttgtga cagacacggg gagctccgag tgccagcctg tggctgccct gctgtggggg 120  
 tcctggggcc ggcgaggccc cttcagtcct gttctggggg gacggccac tccggggagg 180  
 ggggtgtgctg tgctgagcgc tgtatccctg aatatagttt attttttcta catttgaatt 240  
 ctgttgtaga tttatgtaaa aatacattct ttttgaaaat aaaaattttc atgtcttct 299

<210> 593  
 <211> 425  
 <212> DNA  
 <213> Homo sapiens

<400> 593  
 tttttttttc tttttccag gaggcggcga cggcggcggc ggggggagag gaagagaaag 60

```

aagcgtctcc agctgaagcc aatgcagccc tccggtcttc cgcgaagaag ttcctgccc 120
cgatgagccc ccgccgtgcg tccccgacta tcccaggcg ggcgtggggc accgggcca 180
gcgccgacga tcgctgccgt tttgcccttg ggagtaggat gtggtgaaag gatggggctt 240
ctcccttacg gggctcacia tggccagaaa agattccgtg aagtgtctgc gctgcctgct 300
ctacgccctc aatctgctct tttggaatca tcacattcca cttctaaaag gagctttaa 360
gatggcctgg ttgaacgtcc ttcctttgtg agtgaggaaa ttaagtgcag attaagtgc 420
ttgcc 425

```

```

<210> 594
<211> 425
<212> DNA
<213> Homo sapiens

```

```

<400> 594
gtcactagct ggctaaggct taaagcagag acgtgtgact gggctctctg ggagggcctc 60
tggttcttcc cgggctcagg cttgctgggg gctggggggc agggctctgg cgacctagag 120
gtgtggacgg cacagctgca ggaggccttc tcttaaccct ccgagagtgg gactgggaga 180
tttctctga agtcccaaag aggccctgtg cccaggggac ctctctctg gcctcccagg 240
tggtgtgtgc aagctggttc ttggccatgc tccaggctcg ggtgggcaca ggcgtccact 300
ccagtgtgct gcgtgcttgt gagactgcct gttctgggac cagccctgg gctcttcac 360
caagatttgg tgagggtccc cctctgcctc tcacagaagc cctggccct ggactgtcct 420
ggggg 425

```

```

<210> 595
<211> 162
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 43, 102, 126, 154, 158, 160
<223> n = A,T,C or G

```

```

<400> 595
ctttacatta ttttttttcc aaaaagacta gtatttatac aangggcaat agaaacaaaa 60
acaaaaaccc ttccgactgc cacctggaag gggctggctg gnctgctccc tctccaccc 120
ggaacngggg ggggcactgg gcaggaggga atgnngangn gg 162

```

```

<210> 596
<211> 283
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 17, 106, 111, 115, 120, 127, 131, 144, 150, 153, 155, 160,
166, 171, 176, 182, 201, 203, 205, 212, 220, 221, 224, 232,
239, 242, 259
<223> n = A,T,C or G

```

```

<400> 596
aaggtgactc aacacntct tctcaagga cttcttggtg atactctctt gtcttttcca 60
gttaccctct tctcctttg tctctgtgc ttgggctcac aacttnatgg nctgnacttn 120
ataaaanaac natggcaact ttgncctgan tgnncctn cccaanctga nctggntgga 180

```

anaagaaact tggaaactat ntnanccatg gntttgggan nctnccccct tncccatgnc 240  
tnctaataaaa accatgcant gcctttggag agaagagacc ccc 283

<210> 597

<211> 426

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 41, 43, 46, 197, 200, 207, 211, 217, 255, 277, 287, 293,  
297, 304, 318, 327, 333, 355, 357, 359, 375, 379, 380, 394,  
405, 407, 409

<223> n = A,T,C or G

<400> 597

gaaatacaaaa tgtggattct catcactgaa aaatctttga ngntgngttt attcctttca 60  
tcattttttta aatatttttt ttactgccta tgggctgtga tgtatataga agttgtacat 120  
taaacataacc ctcatTTTTT tcttttcttt tttttttttt ttttttagccc aaagtttttag 180  
tttctttttt atgatgnggn acctccnaag ngatggnaga tttaaataat tttttatttt 240  
tattttatat atttnttcat tagggccttt tctcccnaaa acgaaanaaa aantccnaaa 300  
aacnaaaccc aaaaaaanag agggtantgt ccnagtttct gtatgtataa agtcntncnc 360  
gatttcagga gagcnctggn cccaatttgc tcntgaatc aaggngngna aatggttttt 420  
ttggcg 426

<210> 598

<211> 412

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 241, 262, 300, 309, 312, 318, 327, 329, 385, 390, 399, 402

<223> n = A,T,C or G

<400> 598

tttttttttt tttttttttg ccacctagag atgataatTT attgtttttac catgactcag 60  
aagagaaaca acataaagag aatatttcaa atccccacaa tttcctttctc aacctcacta 120  
ctcttaacat ttcttttatca gacgccactg gcttcctaaa atggaccctg gactatgtat 180  
ggggaccaca ttcattatgc tgcctttcct cttatgatta aaacttttagc cctcattcga 240  
nggttccaat ggtactttta gnggaggagt ccctagcttt taaaaaaacc acttttcctn 300  
taaaatcctt tntttatnga aaaaaancnt ttttaaaaaat gttaaggagg attttaaatg 360  
accatattca attaaaaaaa aaatnccttn tggaacatnt tngcagaaac ct 412

<210> 599

<211> 415

<212> DNA

<213> Homo sapiens

<400> 599

ccaagatgac aaagaaaaga aggaacaatg gtcgtgccaa aaagggccgc ggccacgtgc 60  
agcctattcg ctgactaac tgtgcccgat gcgtgcccaa ggacaaggcc attaagaaat 120  
tcgtcattcg aaacatagtg gaggccgcag cagtcaggga catttctgaa gcgagcgtct 180  
tcgatgccta tgtgcttccc aagctgtatg tgaagctaca ttactgtgtg agttgtgcaa 240





<220>  
 <221> misc\_feature  
 <222> 31, 99, 174, 242, 249, 331, 415  
 <223> n = A,T,C or G

<400> 603  
 catgagcata aaaaaaaaaac ccaaacctgt nccatacccc tcccactcat gcaaacagct 60  
 cttaaaatga agaattcttt caaaatttta cgttttttnc attcttggct caattctttt 120  
 gctttcctca tcatcagaat tcaaactttg ggcaaacatg ggttttgggc tgantctttg 180  
 gaatatgctg gaaaaacccc aatatgggct gcttctgctt gtttggcatg acgcaaaatg 240  
 gnttcccang atactgcatc gtcttgccaa gaatgttcca ttagaaaaag gcccggtcc 300  
 tcgccacact ggctggcctc tgctgggtgc ntctagagta tctcggtgc acctcagtgc 360  
 atctgtccat aatttttttg aaaaaaaaaa ctcaatctta acgcgggcat attcnc 416

<210> 604  
 <211> 414  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 291, 359, 367, 369, 371, 374, 381, 383, 387, 400  
 <223> n = A,T,C or G

<400> 604  
 aaaatttatg agctttatta aagcggttta tcacaaagat ggaaacgtac aaatgagaag 60  
 catgcaacca tcatcttcca cagtcaagtc aaactgctat ttctctctct ctctgtttc 120  
 atagagctgg aaactgcagg tgttataccc aacctattca tctcaacac tgtagtccag 180  
 ccccggaaac tactcagggc accaaacatc caaaacataa actattatta taaaaagaaa 240  
 gtgcaaagtt aaaaaagaaa acatggagac ccctccccc cataccctca nctaaaggct 300  
 aacaatggca cttgggctct tgcttaatct agattgtctt caaaaagtct ctaaaatgng 360  
 atactgngng ngnggggggg ngngaanggt ccaaaagctn cttagtggtt gaaa 414

<210> 605  
 <211> 417  
 <212> DNA  
 <213> Homo sapiens

<400> 605  
 tctcttttca caatcactca acaaacaggt cacacatccc ctaggtccac gaactcatct 60  
 tctogtttgg ccaaatcgct ttcattctcc aaagctttcc agccactggt gggtaagacg 120  
 ggcttagagg aatgtcgctg gagcagagcg aaaggaaaca aagacgagag gcgggcagag 180  
 ttcttcagca ggcagggggc ctccagctgg ggggcctgct ggctgtggtg tctctcgctg 240  
 atcttctctt gtaaaactct gacttctctc atcatttcca agagtttgct cagagtggcc 300  
 acttggccac cacctaggat ttgggcttct ggaatccaac gtaggtagcg ctgggccacg 360  
 actttgattt cgggcccctc gatatgcggt aacaacaaac catggtagtc agtggac 417

<210> 606  
 <211> 413  
 <212> DNA  
 <213> Homo sapiens

<400> 606  
 ctgaattctt taatttataa aaatcatacc taggaggtgt gctataggaa ttcagatata 60

```

ataagttgca tataaaaccc gacctcattg ctcatgtgtg taaagcaagg atgatgagaa 120
aatgcacctc aggagcaaaa acacgcttta cgggcactcc gggacccaag tcccagagaca 180
tttccacgtg accttctgga aagacacacc gccacactga ctgcacgacg ggactgggtcc 240
agcctcccgg ctctcagga aggagatgag tttcctacaa agtgagtggc cacagctcca 300
ggacagggcg tccacatgtc gttgtgggtc tggctggatt ttgaggtgcc gaggaactgg 360
tcggtgtcct gatcgtattg tacgtggtgc tctcgatctc ccaactgcc taa 413

```

<210> 607

<211> 414

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 376, 384

<223> n = A,T,C or G

<400> 607

```

attttcatta aaactgtcag aatttgctta ctataattat gatacagtcc aaagaatgca 60
gtcacttttt atcatgttaa ctaattgttc tcttttgaag atctatggtt gactaattaa 120
acaataattc aagtagagt tcccagaaaa aaaccacttg ggctccctgt ttggagtctg 180
gctggctctg agcattgcc aatggccccta ctacactgac tttgtatcct ctcccttttag 240
aggctttgca ttctgcaccc agcttcacta acagtgggct gaaaacatcc ttgggttgag 300
tgtttcattt gggagttatt tggccagggc cttttgaaca gtaagtgtcc ccatgaagtg 360
ctagataata tatgngntaa agangtcagc tttttttttt tttttaactc taac 414

```

<210> 608

<211> 415

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 22, 288, 307, 310, 322, 336, 340, 343, 352, 353, 372, 381, 395, 408

<223> n = A,T,C or G

<400> 608

```

gcagtgggtct gatcttaagg gncatatatat ttgcacctcc tcattcaaca cagggtctgga 60
ggttctacaa caggaaatca ggcctacagc atcctgtgta tcttgagtt gggattttta 120
aacatactat aaagtctgtg ttggtatagt acccttcata aggaaaaaat gaagtaatgc 180
ctataagtag caggcctttg tacctcagt tgaagagaaa tcaagagatg ctaaaagctt 240
tacaatggaa gtggcctcat ggatgaatcc ggggtatgag cccagganaa cgtgctgctt 300
tttggtnacn tatccctttt tntcttaaga aagcanggtg ctntcttatt annaaatatg 360
ttaaaaaatg gnaagcaaac nacaggtgcc ttananaatt accaatntt aactt 415

```

<210> 609

<211> 420

<212> DNA

<213> Homo sapiens

<400> 609

```

ggttttaaaa ttatttcttg aatctctcca tacacaggca aaaataagtg tgttacttaa 60
catactggaa attgcctaac ttaatcattg ctaaagaag agaaaattat ccccaaacg 120

```

```

tgcttaacca ggaggccaat gcatttgccg acctccaaga acatggagat gaacgtgata 180
gacagactgt ccaccatctg aaccttcatt caccaccatt cgataaccct tattcaggcc 240
cagatcagca gcacatttct tgccaacaat cattaagtgt ccaagaagac tttcatcatc 300
atcttctgcc acagaaatct gggatatatg tttcttgggt atcaccagaa aatgtgttg 360
tgcttgaggg gaaatgtcat ggaaagcaag gcaccgggtc tccttaaaaa tgattttggc 420

```

```

<210> 610
<211> 158
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 25, 29, 31, 37, 66, 83, 86
<223> n = A,T,C or G

```

```

<400> 610
caactttaaa aaaaaggggg cggtnaaana nccaaanata aaaaggtccc tttggtggat 60
aaaggnccct ttccgggacc ggnccnggac ccacctttgg gcccaaaggg ggatttaccg 120
ggtaaaccaa gcctttaaaag cggtgggggt taaatttc 158

```

```

<210> 611
<211> 159
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 132, 147, 152, 154
<223> n = A,T,C or G

```

```

<400> 611
tcgacactag tggatccaaa ggaagatggc ggacattcag actgagcgtg cctaccaaaa 60
gcagccgacc atctttcaaa acaagaagag ggtcctgctg ggagaaactg gcaaggagaa 120
gctcccgcgg tntacaaga acatcgntct gngnttcaa 159

```

```

<210> 612
<211> 419
<212> DNA
<213> Homo sapiens

```

```

<400> 612
gcatttttta ttaagacatt tggggcccga gtttctctc ctctctccct ccctctctgtg 60
ctctctaaat tcagcttttg gaaacctaa gttgcccacc ttcccagca ggtagccaga 120
gcctccgggg tccctcttcc ttcttcttt ctcccagat actgcaagag acaccaagt 180
ctgctgtcag cagaggggta agcgtctggc actgatgtt atgcgcgtga gtcccagatg 240
ccgcagcggg ggggccagag gcaagccagt cccagactct aactccatct ccagctcagc 300
ctcatccaga agctcctggt gcaggtgaca gacttggtcc actttcagtc tgtgcagccg 360
ggcccgcagc ctgagcagct gccctgccag ctgccgggtc tgagcccgcg tctctctgca 419

```

```

<210> 613
<211> 419
<212> DNA

```

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 395

<223> n = A,T,C or G

<400> 613

```
ccccatactg aggcataata agtttgcaaa accaaggggc ctgtcttccc aaggtcttac 60
tataaaatct gggttaggct aaaacttatt atgtagacca gagaggcggt gattttaaac 120
caatcatcct gtctcatctt cattatttct ggctttatga gcagaatgtc ctgctacctt 180
tggcttctta taaagatctt taatggagta ttttaaacad tggaaaatcc atgagtttga 240
gcttatttgg agaatgctgc taagaatggg attgactgac ataacttact agcctctttc 300
ctgcttgagg tacagcagtt ttcaatccca atgtgtaaag tgcttagaag ttatcactcc 360
ccaccttaga gcaaaaaacct tcagagaact tcagncactc caccaggcaa atagcacct 419
```

<210> 614

<211> 123

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 2, 37, 74, 76, 87, 88, 91, 96, 105, 112, 117, 121

<223> n = A,T,C or G

<400> 614

```
gnggtatgga ctagaaaact tggaatgact catgaanaaa ccttggaatg acacatgaag 60
catgataggg aaantnattc tgaggcnnga ngcttnactg aattntttcc anccagnngt 120
ntt 123
```

<210> 615

<211> 362

<212> DNA

<213> Homo sapiens

<400> 615

```
gaccttgagg tttcatcggg tgattgccct tgatttctta ggctttgggt tcagtgacaa 60
accgagacca catcactatt ccatatttga gcaggccagc atcgtggaag cgcttttgcg 120
gcatctgggg ctccagaacc gcaggatcaa ccttctttct catgactatg gagatattgt 180
tgctcaggag cttctctaca ggtacaagca gaatcgatct ggtcgggtta ccataaagag 240
tctctgtctg tcaaattggag gtatctttcc tgagactcac cgtccactcc ttctccaaaa 300
gctactcaaa gatggaggtg tgetgtcacc catcctcaca cgactgatga acttctttgt 360
at 362
```

<210> 616

<211> 210

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 156, 181, 194

<223> n = A,T,C or G

<400> 616  
 tgatgccacc ccgtcacccc tcccctcctg agcagggatc caagaatgtg ccaagagtc 60  
 cgccagcctc agccaggtgg gcctgtatat aggggccatg tgcaataggg agggacgtct 120  
 totatTTTTT gctgccccct ccccgccac tgtctngggg cagggggaga aggtattttc 180  
 nagataaagc acangcacca caaataaaag 210

<210> 617  
 <211> 511  
 <212> DNA  
 <213> Homo sapiens

<400> 617  
 acgagctttc gtggctcact ccccttcctc tgctgccgct cggtcacgct tgtgccccgaa 60  
 ggaggaaaca gtgacagacc tggagactgc agttctctat ccttcacaca gctctttcac 120  
 catgcctgga tcacttcctt tgaatgcaga agcttgctgg ccaaaagatg tgggaattgt 180  
 tgcccttgag atctatTTTT cttctcaata tgttgatcaa gcagagttgg aaaaatatga 240  
 tgggtgtagat gctggaaaagt ataccattgg cttggggccag gccaaagatgg gcttctgcac 300  
 agatagagaa gatattaact ctctttgcat gactgtgggt cagaatctta tggagagaaa 360  
 taacctttcc tatgattgca ttggggcggc ggaagttgga acagagacaa tcatcgacaa 420  
 atcaaagtct gtgaagacta atttgatgca gctgtttgaa gagtctggga atacagatat 480  
 agaaggaatc gacacaacta atgcatgcta t 511

<210> 618  
 <211> 511  
 <212> DNA  
 <213> Homo sapiens

<400> 618  
 acgaggccac agaggcgggc gagagatggc cttcagcggt tcccaggctc cctacctgag 60  
 tccagctgtc cccctttctg ggactattca aggaggtctc caggacggac ttcagatcac 120  
 tgtcaatggg accgtttctca gctccagtgg aaccagggtt gctgtgaact ttcagactgg 180  
 cttcagtggg aatgacattg ccttccactt caaccctcgg tttgaagatg gagggtagct 240  
 ggtgtgcaac acgaggcaga acggaagctg gggggccgag gagaggaaga cacacatgcc 300  
 tttccagaag gggatgccct ttgacctctg cttcctgggt cagagctcag atttcaaggt 360  
 gatggtgaac gggatcctct tcgtgcagta cttccaccgc gtgcccttcc accgtgtgga 420  
 caccatctcc gtcaatggct ctgtgcagct gtcctacatc agcttccagc ctcccggcgt 480  
 gtggcctgcc aaccgggctc ccattacca g 511

<210> 619  
 <211> 413  
 <212> DNA  
 <213> Homo sapiens

<400> 619  
 gaattcggca cgagctggac aggagaagag cctggctgct gaaggcaggg ctgacacgac 60  
 caggggcagc attgctggag ccccagagga tgaaagatcg cagagcacag cccccaggc 120  
 accagagtgc ttcgaccctg ccggaccggc tgggctcgtg aggccgacat ctggcctttc 180  
 ccagggccca ggaaaggaaa ccttggaag tgctctaata gctctagact ctgaaaaacc 240  
 caagaaactt cgcttccacc caaagcagct gtacttctct gccaggcagg gtgagctgca 300  
 gaaggtgctt ctcatgctgg ttgatggaat tgatcccaac ttcaaaatgg agcaccaaaag 360  
 taagcgttcc ccattacatg ctgctgcgga ggctggccac gtggacatct gcc 413

<210> 620

<211> 415  
 <212> DNA  
 <213> Homo sapiens

<400> 620  
 gaattcggca cgagcggcga cgggtggtggt gactgagcgg agcccgggtga caggatgttg 60  
 gtgttggtat taggagatct gcacatccca caccggtgca acagtttgcc agctaaattc 120  
 aaaaaactcc tgggtgccagg aaaaattcag cacattctct gcacaggaaa cctttgcacc 180  
 aaagagagtt atgactatct caagactctg gctggtgatg ttcattattgt gagaggagac 240  
 ttcgatgaga atctgaatta tccagaacag aaagtgtgta ctgttgagaca gttcaaaatt 300  
 ggtctgatcc atggacatca agttattcca tggggagata tggccagctt agccctgttg 360  
 cagaggcaat ttgatgtgga cattcttata tcgggacaca cacacaaatt tgaag 415

<210> 621  
 <211> 421  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 8  
 <223> n = A,T,C or G

<400> 621  
 agaattcngc acgagtggca gcctaagccg tgggaggggt ccagtcgaga atgggaagat 60  
 gaaagacttc agatggaaca gaaataaatg ccttttttga caaacgcagc agtgcggtgcc 120  
 tctagcttgc aagagcggtta ctccccttca tagcttttaa aggttttcgc actgcggtgca 180  
 gtttagagtag ctaaatcttg tgtgacgctc cacaaacact tgtaagaatt ttgcagagaa 240  
 agataaccgt tgccacccaa tgccccccac aggcattcta ctcccagta cctcttaggg 300  
 tgggagaaat ggtgaagagt tgttcctaca acttgctaac ctagtggaca gggtagtaga 360  
 ttagcatcat ccgcatagat gtgaagagga cggctgtttg gataataatt aaggataaaa 420  
 t 421

<210> 622  
 <211> 431  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 8, 11, 17  
 <223> n = A,T,C or G

<400> 622  
 cccggggngg nccctggncat aaaactttta attttactag tgttacttaa tgtatattct 60  
 aaaaagagaa tgcagtaact aatgccctaa atgtttgatc tctgtttgtc attacttttt 120  
 caaaattatt tttttctgta aagtataata tataaaactt cttgcttaaa ttgaattttct 180  
 atattagtggt ttaattgcag tttattaaag ggatcattat cagtaatttc atagcaactg 240  
 ttctagtgtt ttgtgttttt aaaacagaat taggaatttg agatatctga ttatattttt 300  
 catatgaatc acagacctcg gccgcgacca cgctaagggc gaattccagc aactggcgcg 360  
 ccgctactag tggatccgag ctcggtacca agcttggggc taatcatggt catagcctgt 420  
 ttctgtgtg a 431

<210> 623

<211> 421  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 81, 101, 103, 107, 111, 112, 180, 309, 331, 388, 404, 415  
 <223> n = A,T,C or G

<400> 623  
 agaattcggc acgaggaaac atggactgcc ccttaaattt tgactgtcct aaaaacctat 60  
 ttctgattta taatatgctg nctgataaag tgacactaga ngnaccnact nnatggttta 120  
 aatcttccca ttcccagaat ccagaatttt ggaagccatt ttaaccaggg gtatTTTTtN 180  
 caccattacc ttttggaaact ttccaaatta atggcctttt aaaaagggtg gaaggggaaa 240  
 accaaaaggc caaaatttta aaaagggttg gggggggaac cttaaaaaaa aaaatgggtt 300  
 ttggggccnc ctttttttaa aaggccaaaa nttttttggg ttccaattaa aaaaatttcc 360  
 tttttccaac ccaaaattaa gaaaaggnaa aattaaaaaa attncaaaaa ttggnTTTTt 420  
 t 421

<210> 624  
 <211> 421  
 <212> DNA  
 <213> Homo sapiens

<400> 624  
 aagaattcgg cacgagcgga tgtgctcact gacattctac tccaagtcgg agatgcagat 60  
 ccactccaag tcacacaccg agaccaagcc ccacaagtgc ccacattgct ccaagacctt 120  
 cgccaacagc tcctacctgg ccagcacat ccgtatacac tcaggggcta agccctacag 180  
 ttgtaacttc tgtgagaaat ccttcgcca gctctccac cttcagcagc acaccgaat 240  
 ccactcggg gatagaccat acaaattgtc acaccaggc tgtgagaaag cttcacaca 300  
 actctccaat ctgcagtccc acagacggca acacaacaaa gataaacctt tcaagtgcc 360  
 caactgtcat cgggcgtaca cggatgcagc ctactagag gtgcacctgt ctacgcacac 420  
 a 421

<210> 625  
 <211> 421  
 <212> DNA  
 <213> Homo sapiens

<400> 625  
 agaattcggc acgagctact ccttgccgcgc tggcactccg cagcctttaa ggttcgcgcg 60  
 ggggccaggc aagagttagc catgaagagc ctcaagtccc gcctgaggag gcaggacgtg 120  
 cccggccccg cgtcgtctgg cgccgccgcc gccagcgcgc atgcagcaga ttggaataaa 180  
 tatgatgacc gattgatgaa agcagcagaa aggggggatg tagaaaaagt gacgtcaatc 240  
 cttgctaaaa aggggggtcaa tccaggcaaa ctagatgtg aaggcagatc tgtcttccat 300  
 gttgtgacct caaaggggaa tcttgagtgt ttgaatgcc tcttataca tggagttgat 360  
 attacaacca gtgacactgc agggagaaat gctcttcacc tggctgctaa gtatggacat 420  
 g 421

<210> 626  
 <211> 476  
 <212> DNA  
 <213> Homo sapiens







```

gctttacctc gctgacccta tgaaggcacg tgtgggttctc aaatataggc attctgatgg 180
gaacttgtgt gttaaagtaa cagatgattt agtttggttg gtgtataaaa cagaccaagc 240
tcaagatgta aagaaaattg agaaattcca cagtcaacta atgcnactta tggtagccaa 300
ggaagccgcg aatgttacca tggaaactga gtgaatggtt tgaaatgaaa ctttgcctgt 360
tacttaggaa gtaaatatct tttgaattan aaaaagtgtt gg 402

```

<210> 633

<211> 402

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 278, 387

<223> n = A,T,C or G

<400> 633

```

gcggagtcgg gtgggttggc ggctataaag ctggtagcga aggggagggc ccgcggactg 60
tcctttcgtg gtcactccc tttcctctgc tgccgctcgg tcacgcttgc tctttcacca 120
tgccctggatc acttcctttg aatgcagaag cttgctggcc aaaagatgtg ggaattgttg 180
cccttgagat ctattttcct tctcaatatg ttgatcaagc agagttggaa aaatatgatg 240
gtgtagatgc tggaaagtat accattggct tggggccangc caagatgggc ttctgcacag 300
atagagaaga tattaactct ctttgcattg ctgtggttca gaatcttatg gagagaaata 360
acctttccta tgattgcatt gggcggntgg aagttggaac ag 402

```

<210> 634

<211> 386

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 27, 354, 363, 368, 369, 375

<223> n = A,T,C or G

<400> 634

```

tgcaggtcga cactagtgga tccaaanaat tcggcacgag gctggcaaga agagacgagg 60
cccggctgtg gagcaactga accgggtgac tgtcccaagc tggactccct ggtggcccag 120
cagctgcaga gcaagaatga gtgtggaatc cttgccgacc ccaagggggc cttccgggag 180
tgccatagca agctggaccc ccagggtgcc gtgcgcgact gtgtctatga ccgctgcctg 240
ctgccaggcc agtctgggcc actgtgtgac gcactggcca cctatgctgc tgcattgccag 300
gctgctggag ccacagtga cccctggagg agtgaagaac tttgccactc tgantgcca 360
ccncacannc ctatnaggcg ttttct 386

```

<210> 635

<211> 404

<212> DNA

<213> Homo sapiens

<400> 635

```

gccaccactt cgtagtgttt tggaacaaac caagttaaag aaagaagata tttatgcagt 60
ggagatagtt ggtggtgcta cacgaatccc tgcggtaaaa gagaagatca gcaaattttt 120
cggtaaagaa cttagtacaa cattaaatgc tgatgaagct gtcactcgag gctgtgcatt 180
gcagtggtgc atcttatcgc ctgctttcaa agtcagagaa ttttctatca ctgatgtagt 240

```

```

accatatcca atatctctga gatggaattc tccagctgaa gaaggggtcaa gtgactgtga 300
agtcttttcc aaaaatcatg ctgctccttt ctctaaagtt cttacatttt atagaaagga 360
acctttcact cttgaggcct actacagctc tcttcaggat ttgc 404

```

```

<210> 636
<211> 403
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 321
<223> n = A,T,C or G

```

```

<400> 636
gctcactggg cccagtgcc ctgctggagc aagcctatgc tgtgcagatg gacttcaacc 60
tgctagtggg tgctgtcagc cagaacgctg ccttcctgga gcaaactctt tccagcacca 120
tcaaacagga tgactttacc gctcgtctct ttgacatcca caagcaagtc ctaaaagagg 180
gcattgcccc gactgtgttc ctgggcctga atcgtctcaga ctacatgttc cagcgcagcg 240
cagatggctc cccagccctg aaacagatcg aaatcaacac catctctgcc agctttgggg 300
gcctggcctc ccggacccca nctgtgcacc gacatgttct cagtgtcctg agtaagacca 360
aagaagctgg caagatcctc tctaataatc ccagcaaggg act 403

```

```

<210> 637
<211> 441
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 24
<223> n = A,T,C or G

```

```

<400> 637
aggctcgacac tagtggatcc aaanaattcg gcacgaggag agagacccta aaagcaaaaa 60
tagaagggat gacccaaagt ctgagagggtc tggaattaga tgttggttact ataagggtcag 120
aaaaagaaaa tctgacaaat gaattacaaa aagagcaaga gogaatatct gaattagaaa 180
taataaattc atcatttgaa aatattttgc aagaaaaaga gcaagagaaa gtacagatga 240
aagaaaaatc aagcactgcc atggagatgc ttcaaacaca attaaaagag ctcaatgaga 300
gagtggcagc cctgcataat gaccaagaag cctgtaaggc caaagagcag aatcttagta 360
gtcaagtaga gtgtcttgaa cttgagaagg ctcagttgct acaaggcctt gatgaggcca 420
aaaataatta tattgtttgc a 441

```

```

<210> 638
<211> 404
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 324, 353, 371
<223> n = A,T,C or G

```

```

<400> 638

```





<221> misc\_feature  
 <222> 117, 119, 124, 130, 131, 132, 136, 139, 141, 144, 148, 149,  
 150, 155, 158, 159, 161, 163, 164, 165, 168, 169, 174, 176,  
 177, 180, 183, 185, 193, 194, 199, 201, 203, 204, 209, 220,  
 233, 235, 242, 248, 251, 265, 275, 282, 287, 294, 297  
 <223> n = A,T,C or G

<221> misc\_feature  
 <222> 307, 311, 373, 378  
 <223> n = A,T,C or G

<400> 644  
 ggggatgaca gccctaacaa gaactgtttt tgaatcggtg tgcagctcca ggcaatagag 60  
 tatgtgaagc gatttcagta gaatcactta ctcatcctaa aagaaaacat tattccnant 120  
 accntccttn nnattncctt nttntaannn aaacntanng ntnnntgnnt gttnannggn 180  
 atnancttta aanntgcant ntnntttant cctccaaatn tttttcggtt tcntntgaga 240  
 ancaccanaa nctttctttc ccttntcttc agtanttgca anagganacc tccnttnagg 300  
 actggcntag ngaacgtaat ccatgcttta actgccatta aacagcccca tggttggatt 360  
 tttttttttt ttngagtngg ctttccaaaa ctttgtcaaa aac 403

<210> 645  
 <211> 405  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 205, 223, 262, 281, 339, 357, 369, 374, 387  
 <223> n = A,T,C or G

<400> 645  
 ggcgccttcca ggccgcactc cagagccaaa agagctccat ggccggcgcg gccaaagcca 60  
 acaacctttc cctgggtggtg cacggaccgg gggacttgcg cctggagaac tatectatcc 120  
 ctgaaccagg cccaaatgag gtcttgctga ggatgcattc tgttggaatc ttgtggctta 180  
 aatgtcacta ctgggagtat gggcnaattg ggaattttat tnggaaaaac ccatgggggtt 240  
 ggacatgaag ttcggacagt cnaaaaagtg ggatcatcgg naaagaccta aaaccagggtg 300  
 atcggttgca tcacctgggc tcccgaataa tgataattnt gaagatggcc atacatntgt 360  
 accttcatnt tttntggcac cccccnata cggaactttg cgggtt 405

<210> 646  
 <211> 412  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 378  
 <223> n = A,T,C or G

<400> 646  
 ggaaccaggt gcctgcagcc atggctcccg gccagctcgc cttatttagt gtctctgaca 60  
 aaaccggcct tgtggaattt gcaagaaacc tgaccgctct tggtttgaat ctggctgctt 120  
 ccggaggggac tgcaaaagct ctcagggatg ctggctcggc agtcagagat gtctctgagt 180  
 tgacgggatt tcctgaaatg ttggggggac gtgtgaaaac tttgcatcct gcagtccatg 240







<400> 652  
 gcttctctct cctgtgcaaa atggcaactc ttaaggaaaa actcattgca ccagttgcgg 60  
 aagaagaggc aacagttcca aacaataaga tcaactgtagt ggggtgttga caagttggta 120  
 tggcgtgtgc tatcagcatt ctgggaaagt ctctggctga tgaacttgct cttgtggatg 180  
 ttttggaaga taagcttaaa ggagaaatga tggatctgca gcatgggagc ttatttcttc 240  
 agacacctaa aattgtggca gataaagatt attctgtgac cgccaattct aagattgtag 300  
 tggtaactgc aggagtcccg tcagcaagaa ggggagagtc ggctcaatct ggtgcagaga 360  
 aatggtaatg tcttcaaatt cattattcct cagatccgca agtacagtcc tg 412

<210> 653  
 <211> 414  
 <212> DNA  
 <213> Homo sapiens

<400> 653  
 gccagttcaa gtccaccctg ccggacgcgg atagggagcg cgaggccatc ctggccatcc 60  
 acaaggaggc ccagaggatc gctgagagca accacatcaa gctgtcgggc agcaaccctc 120  
 acaccaccgt caccgccaa atcatcaact ccaagtggga gaaggtgcag cagctggtgc 180  
 caaaacggga ccatgccctc ctggaggagc agagcaagca gcagtccaac gagcacctgc 240  
 gccgccagtt cgccagccag gccaatgttg tggggccctg gatccagacc aagatggagg 300  
 agatcgggcg catctccatt gagatgaacg ggaccctgga ggaccagctg agccacctga 360  
 agcagtatga acgcagcatc gtggactaca aagcccaacc tggaccttgt tgga 414

<210> 654  
 <211> 404  
 <212> DNA  
 <213> Homo sapiens

<400> 654  
 gcatggcgga gctgacggtg gaggttcgcg gctccaacgg ggctttctac aagggattta 60  
 tcaaagatgt ccacgaagac tccctcacag ttgtttttga aaataattgg caaccagaac 120  
 gccaggttcc gtttaatgaa gtgcgattac caccaccacc tgatataaaa aaagaaatta 180  
 gtgaaggaga tgaagtagag gtatatcaa gagcaaatga ccaagagcca tgtggatggg 240  
 ggctggctaa agttcggatg atgaaaggcg agttttatgt cattgaatat gctgcttggt 300  
 atgccactta caatgaaata gtcacatttg aacgacttcg gcctgtcaat caaaataaaa 360  
 ctgtcaaaaa aaataccttc tttaagtgca cagtggatgt tcct 404

<210> 655  
 <211> 402  
 <212> DNA  
 <213> Homo sapiens

<400> 655  
 gggcaagatc accattagca aatggaaatt acatttgaaa gccattagac ttataggtga 60  
 tgcaagcatc taagagagag gttaatcaca ctatagaggc ataagtggta tcagttttca 120  
 tttttctaatt tgtttaaaact gtgttttata ccagtgtttg caagtaattg ggtgttagct 180  
 tgagatgggt aaaggtggtt tggggaggga ctctgttgta atggttttgc tgtaaaaaat 240  
 gtttccaact ccgctgaaat gttgctgaaa agcatggtgc tggtaacagt tcaacaatcc 300  
 gtggctgctc attcttgctt actttactct cccactgaag caggtttagcg tttgaagggt 360  
 gtatggaaaa cctgcatgcc tgttcaattc ttttgtttct tc 402

<210> 656  
 <211> 416  
 <212> DNA

<213> Homo sapiens

<400> 656

```

gaatcggcac gaggtcagcc gcgaggtgtc cggcatcaag gccgcctacg aggccgagct 60
cggggatgcc cgcaagaccc ttgactcagt agccaaggag cgcgcccgcc tgcagctgga 120
gctgagcaaa gtgcgtgagg agtttaagga gctgaaagcg cgcaatacca agaaggaggg 180
tgacctgata gctgctcagg ctcggttgaa ggacctggag gctctgctga actccaagga 240
ggccgcactg agcactgttc tcagtggaaa ggcgacgctg gagggcgagc tgcattgatct 300
gcggggccag gtggccaagc ttgaggcagc cctaggtgag gccaagaagc aacttcagga 360
tgagatgctg cggcggggtg atgctgagaa caggctgcag accatgaagg aggaac 416

```

<210> 657

<211> 402

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 150, 153, 154

<223> n = A,T,C or G

<400> 657

```

gctccaagca gacacaatgg taagaatggt gcctgtcctg ctgtctctgc tgctgcttct 60
gggtcctgct gtccccccagg agaaccaaga tggctcgttac tctctgacct atatctacac 120
tgggctgtcc aagcatgttg aagacgtccn cgnntttcag gcccttggct cactcaatga 180
cctccagttc tttagatata acagtaaaga caggaagtct cagcccatgg gactctggag 240
acaggtggaa ggaatggagg attggaagca ggacagccaa cttcagaagg ccaggaggga 300
catctttatg gagaccctga aagacattgt ggagtattac aacgacagta acgggtctca 360
cgtattgcag ggaaggtttg gtttgtgaga tcgagaataa ca 402

```

<210> 658

<211> 404

<212> DNA

<213> Homo sapiens

<400> 658

```

gcaagacgcc acttccccta tcatagaaga gcttatcacc ttatcatgac acgccctcat 60
aatcattttc cttatctgct tcctagtcct gtatgccctt ttccctaacac tcacaacaaa 120
actaactaat actaacatct cagacgtcca ggaaatagaa accgttgaac tatcctgccc 180
gccatcatcc tagtcctcat cgccctccca tccctacgca tcctttacat aacagacgag 240
gtcaacgata cctcccttac catcaaatca attggccacc aatggtactg aacctacgag 300
tacaccgact acggcgagct aatcttcaac tcctacatac ttccccatt attcctagaa 360
ccaaggcgga cctgcgactc cttgacgttg acaatcgagt agta 404

```

<210> 659

<211> 411

<212> DNA

<213> Homo sapiens

<400> 659

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ggcacgaggg tcgccgttac tccgaggaga taccagtcgg tagaggagaa gtcgagggtta 60
gaggggaactg ggaggcactt tgctgtctgc aatcgaagtt gagggtgcaa aatgcagag 120
taataaaact tttaacttgg agaagcaaaa ccatctccaa gaaaagcatc atcaacatca 180
ccaccagcag cagcaccacc agcagcaaca gcagcagccg ccaccaccgc caatacctgc 240

```

```

aatggggcaa caggccagca gccaaaatga aggcttgact attgacctga agaatttttag 300
aaaaccagga gagaagacct tcacccaacg aagccgtctt tttgtgggaa atcttcctcc 360
cgacatcact gaggaagaaa tgaggaaact atttgagaaa tatggaaagg c 411

```

```

<210> 660
<211> 412
<212> DNA
<213> Homo sapiens

```

```

<400> 660
ggcacgaggg ggatttgggt cgcagttctt gtttgtggat cgctgtgatc gtcacttaac 60
aatgcagatc ttcgtgaaga ctctgactgg taagaccatc accctcgagg ttgagcccag 120
tgacaccatc gagaatgtca aggcaaagat ccaagataag gaaggcatcc ctctgacca 180
gcagaggctg atctttgctg gaaaacagct ggaagatggg cgcaccctgt ctgactacaa 240
catccagaaa gagtccaccc tgcacctggg gctccgtctc agaggtggga tgcaaattctt 300
cgtgaagaca ctactggca agaccatcac ccttgagggtc gagcccagtg acaccatcga 360
gaacgtcaaa gcaaagatcc aggacaagga aggcattcct cctgaccagc ag 412

```

```

<210> 661
<211> 411
<212> DNA
<213> Homo sapiens

```

```

<400> 661
ggcacgaggg gagatcgatg atcttgccag taatgtagag acagtgtcta aggccaaagg 60
aaacctcgag aagatgtgcc gcacctgga ggaccagggt agtgagctga agtcaaagga 120
ggaggaacag cagcgactga tcaacgacct gacaacccag agaggacgac tgcagaccga 180
atccggtgaa ttttccaggc agcttgatga gaaggaagcg ctggtatctc agttatcaag 240
gggcaaacag gcattcactc aacagattga ggagctaaag aggcaacttg aagaggaagt 300
aaaggccaag aacgcgctgg cccacgccct gcagtctcc cgccatgact gtgacctgct 360
gcggaacag tacgaggagg agcaggagtc taaggctgaa ctgcagaggg c 411

```

```

<210> 662
<211> 414
<212> DNA
<213> Homo sapiens

```

```

<400> 662
ggcacgaggg tcacaggacc agccactagc gcagcctcga gcgatggcct atgtccccgc 60
accgggctac cagcccacct acaacccgac gctgccttac taccagccca tcccggggcg 120
gctcaacgtg ggaatgtctg tttacatcca aggagtggcc agcgagcaca tgaagcgggt 180
cttcgtgaac tttgtggttg ggcaggatcc gggctcagac gtcgccttcc acttcaatcc 240
gcggtttgac ggctgggaca agtggttctt caacacgttg cagggcggga agtggggcag 300
cgaggagagg aagaggagca tgcccttcaa aaaggggtgc gcctttgagc tgggtcttcat 360
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```

```

<210> 663
<211> 414
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 140, 167, 214, 320, 339, 391, 406

```

<223> n = A,T,C or G

<400> 663

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ccgctctcac ccgggacccc cagttccaga agctgcagca atgggtaccgc gagcaccgct 120
ccgagctgaa cctgcgccgn ctcttcgatg ccaacaagga ccgcttnaac cacttcagct 180
tgaccctcaa caccaaccat gggcatatcc tggnggatta ctccaagaac ctggtgacgg 240
aggacgtgat gcggatgctg gtggacttgg ccaagtcag gggcgtggag gccgaccggg 300
agcggatgtt caatggtgan aagatcaact acacccgang gtcgagccgt gctgcacgtg 360
gctctgcgga accggttcaa acacacccat nctgggagac ggcaangatg tgat 414
```

<210> 664

<211> 411

<212> DNA

<213> Homo sapiens

<400> 664

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agacaagaag agaaccttcc ccttttgcct tgatgaccat gacccagctg tgatccatga 120
gaacgcattc cagcccgagg tgctgggtccc catccgctgg acatggagat cgatgggcag 180
aagctgcgag acgccttcac ctggaacatg aatgagaagt tgatgacgcc tgagatgttt 240
tcagaaatcc tctgtgacga tctggatttg aaccgctga cgtttgtgcc agccatcgcc 300
tctgccatca gacagcagat cgagtcctac cccacggaca gcatcctgga ggaccagtca 360
gaccagcgcg tcatcatcaa gctgaacatc catgtgggaa acatttccct g 411
```

<210> 665

<211> 409

<212> DNA

<213> Homo sapiens

<400> 665

```
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cggtccgtg cgttttgggc cgggggtcgc ttttcgcgcg cccagcattc acgggggctc 180
cggcgggcgc ggctatccg tgtcctccgc ccgctttgtg tcctcgctct cctcgggggg 240
ctacggcggc ggctacggcg gcgtcctgac cgcgtccgac gggctgctgg cgggcaacga 300
gaagctaacc atgcagaacc tcaacgaccg cctggcctcc tacctggaca aggtgcgcgc 360
cctggaggcg gccaacggcg agctagaggt gaagatccgc gactggtac 409
```

<210> 666

<211> 411

<212> DNA

<213> Homo sapiens

<400> 666

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cactctcctg tgccctgccg aagagacaga gcttgaggag agcttgagga gagcaggaaa 180
gcagcctccc ccgttgcccc tctggatcca ctgcttaaat acggacgagg acagggccct 240
gtctcctcag cttcaggcac caccactgac ctgggacagt gaatcgacaa tgccgtcttc 300
tgtctcgtgg ggcatectcc tgctggcagg cctgtgctgc ctggtccctg tctccctggc 360
tgaggatccc caggagatg ctgcccagaa gacagataca tcccaccatg a 411
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<210> 667

<211> 412  
 <212> DNA  
 <213> Homo sapiens

<400> 667  
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 gccctaaaaag aattttaaatt ggagagagaa gttgttgaga aagagttatt agaaaaagtt 180  
 aaacatcttg agaatcaaat agcaaaaagt cctgccattg actctaccag aggagattct 240  
 tcaagcttag ttgctgaact tcaagaaaag cttcaggaag aaaaagctaa gtttctagaa 300  
 caacttgaag agcaagaaaa aagaaagaat gaagaaatgc aaaatgttcg aacatctttg 360  
 attgcggaac aacagaccaa ttttaacact gttttaacaa gagagaaaat ga 412

<210> 668  
 <211> 411  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 14, 26, 28, 29, 34, 59, 66, 71, 85, 86, 87, 88, 100, 124,  
 128, 129, 130, 138, 145, 154, 155, 157, 160, 162, 173, 179,  
 186, 189, 190, 191, 198, 199, 200, 201, 206, 218, 219, 221,  
 223, 230, 244, 252, 258, 259, 275, 282, 289, 298, 300  
 <223> n = A,T,C or G

<221> misc\_feature  
 <222> 301, 303, 308, 309, 313, 316, 317, 318, 320, 323, 324, 334,  
 349, 350, 353, 355, 359, 363, 364, 368, 373, 381, 382, 383,  
 399, 402, 403, 406, 407  
 <223> n = A,T,C or G

<400> 668  
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 aaaagntann ncatctnnn ntaatnaaag tattacanna ntnactgccn attgacttta 240  
 ccanaagaga angcttcnng gctttgttgc tgaancttaa tnaaaaggnt atggggantn 300  
 nanaaaannt aanttnnnntn ganntaatct ttgnttgag cttatcatnn ttngntatna 360  
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<210> 669  
 <211> 412  
 <212> DNA  
 <213> Homo sapiens

<400> 669  
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 gatggaactt gaagtggcag agagaaaatt atccttccat aatctgcagg aagaaatgca 180  
 tcattcttta gaacagtttg agcaagcagg ccaagcccag gctgaactag agtctcggta 240  
 tagtgctttg gagcagaagc acaaagcaga aatggaagag aagacctctc atattttgag 300  
 tcttcaaaaag actggacaag agctgcagtc tgctgtgat gctctaaagg atcaaaattc 360  
 aaagcttctc caagataaga atgaacaggc agttcagtca gccagacca tt 412

<210> 670  
 <211> 411  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 154, 352, 373  
 <223> n = A,T,C or G

<400> 670  
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 ctggaaggca ctcatctgaga tggagaagca gcancaggac caagtggacc gcaacatcaa 180  
 ggaggctcgt gagaagctgg agatggagat ggaagctgca cgccatgagc accagggtcat 240  
 gctaattgaga caggatttga tgaggcgcca agaagaactt cggaggatgg aagagctgca 300  
 caaccaagag gtgcaaaaac gaaagcaact ggagctcagg caggaggaag ancgaggcg 360  
 ccgtgaagaa ganatgcggc ggcagcaaga agaatgatg cggcgacagc a 411

<210> 671  
 <211> 411  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 160  
 <223> n = A,T,C or G

<400> 671  
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 cgaccccttt gctgatgcaa ctaagggtga cgacttactn ccggcaggga ctgaggatta 180  
 cattcatata agaatccagc aacggaacgg cagaaagaca ctgactactg ttcagggtcat 240  
 tgcagatgat tatgacaaaa agaaacttgt gaaagctttc aaaaagaaat ttgcctgtaa 300  
 tggtactgtg attgaacatc ctgaatacgg agaggttatt cagcttcaag gtgaccaaag 360  
 aaaaaacatc tgccagtttc tcttgagggt tggcattgta aaggaggaac a 411

<210> 672  
 <211> 409  
 <212> DNA  
 <213> Homo sapiens

<400> 672  
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 gaaaaattat aaccaagcat aatatagcaa ggactaacc cttataccttc tgcataatga 180  
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<210> 673



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<210> 676  
 <211> 413  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 56, 143, 173, 210, 267, 270, 350, 378, 389  
 <223> n = A,T,C or G

<400> 676  
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 <212> DNA  
 <213> Homo sapiens

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 aagaaatata agaaatggct cagaataagt tcatcatgct aaaccttatg catgaaacca 360  
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<210> 678  
 <211> 410  
 <212> DNA  
 <213> Homo sapiens

<400> 678  
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 caacataatt tcttactatg tgagttagga tctgaaagga taagaagga gacattctct 180  
 tggatgaaaa ttgctgtgta ggtccttgc ctgacaaaga tggaaagaaa tgcctttttc 240  
 tcgtaaaatg ttttgataag acttttgaaa tcagtgcctc agataagaag aagaaacagg 300  
 agtggattca agccattcat tctactattc atctgttgaa gctgggcagc cctccaccac 360  
 acaaagaagc ccgccagcgt cggaaagaac tccggaagaa gcagctggct 410

<210> 679  
 <211> 410  
 <212> DNA  
 <213> Homo sapiens





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401

<210> 683

<211> 3255

<212> DNA

<213> Homo sapiens

<400> 683

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&lt;210&gt; 684

&lt;211&gt; 2993

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 684

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acagaatgac	caaaagctgt	caagtcctta	atgtttagaa	atccttaaaa	atgtatagta	2940
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<210> 685
<211> 486
<212> PRT
<213> Homo sapiens
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<400> 685															
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Asp	Gly 35	His	Arg	Leu	Cys	Ser	Asp 40	Leu	Met	Asn	Cys	Leu 45	His	Glu	Arg
Ala 50	Arg	Ile	Glu	Lys	Ala	Tyr 55	Ala	Gln	Gln	Leu	Thr 60	Glu	Trp	Ala	Arg
Arg 65	Trp	Arg	Gln	Leu 70	Val	Glu	Lys	Gly	Pro	Gln	Tyr 75	Gly	Thr	Val	Glu 80
Lys	Ala	Trp	Met	Ala 85	Phe	Met	Ser	Glu	Ala 90	Glu	Arg	Val	Ser	Glu 95	Leu
His	Leu	Glu	Val 100	Lys	Ala	Ser	Leu	Met 105	Asn	Asp	Asp	Phe	Glu 110	Lys	Ile
Lys	Asn	Trp	Gln	Lys	Glu	Ala	Phe 120	His	Lys	Gln	Met	Met 125	Gly	Gly	Phe
Lys	Glu 130	Thr	Lys	Glu	Ala	Glu	Asp 135	Gly	Phe	Arg	Lys	Ala 140	Gln	Lys	Pro
Trp 145	Ala	Lys	Lys	Leu	Lys 150	Glu	Val	Glu	Ala	Ala 155	Lys	Lys	Ala	His	His 160
Ala	Ala	Cys	Lys	Glu 165	Glu	Lys	Leu	Ala	Ile	Ser	Arg	Glu	Ala	Asn	Ser 175
Lys	Ala	Asp	Pro 180	Ser	Phe	Asn	Pro	Glu 185	Gln	Leu	Lys	Lys	Leu 190	Gln	Asp
Lys	Ile	Glu	Lys	Cys	Lys	Gln	Asp 200	Val	Leu	Lys	Thr	Lys 205	Glu	Lys	Tyr
Glu	Lys 210	Ser	Leu	Lys	Glu	Leu	Asp 215	Gln	Gly	Thr	Pro	Gln 220	Tyr	Met	Glu
Asn 225	Met	Glu	Gln	Val	Phe	Glu	Gln	Cys	Gln	Gln	Phe	Glu	Glu	Lys	Arg 240
Leu	Arg	Phe	Phe	Arg 245	Glu	Val	Leu	Leu	Glu	Val	Gln	Lys	His	Leu	Asn 255
Leu	Ser	Asn	Val 260	Ala	Gly	Tyr	Lys	Ala 265	Ile	Tyr	His	Asp	Leu	Glu	Gln
Ser	Ile	Arg	Ala	Ala	Asp	Ala	Val	Glu	Asp	Leu	Arg	Trp	Phe	Arg	Ala



tatTTTTgag gtgtaaaatt aacttgcat gataattcct gatcattatt taccacaaa 1200  
 cttcaaatag tttcttcacg gactaggcat gcagaaataa gcagtggatt ttattgaaac 1260  
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<210> 687

<211> 73

<212> PRT

<213> Homo sapiens

<400> 687

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			20					25					30		
Asn	Leu	Cys	Leu	Phe	Gln	Leu	Leu	Ile	His	His	Ala	Lys	Arg	Asp	Tyr
		35				40						45			
Pro	Val	Lys	Asn	Tyr	Gln	Ile	His	His	Leu	Gln	Phe	Gln	Gln	Thr	Thr
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65					70										

<210> 688

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 688

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21

<210> 689

<211> 20

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<213> Artificial Sequence

<220>

<223> PCR primer

<400> 689

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<210> 690

<211> 5160

<212> DNA

<213> Homo sapiens











His	Asp	Ser	Glu	Leu	Arg	Phe	Thr	Gln	Leu	Cys	Val	Lys	Gly	Gly	Gly
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Gly	Gly	Gly	Asn	Gly	Ile	Arg	Asp	Ile	Phe	Lys	Gln	Asn	Ile	Ser	Cys
	610					615					620				
Arg	Val	Ser	Phe	Ile	Thr	Arg	Thr	Pro	Gly	Glu	Arg	Ser	His	Pro	Gln
625					630					635					640
Gly	Leu	Gly	Pro	Pro	Ala	Pro	Glu	Ala	Pro	Glu	Leu	Gly	Gly	Pro	Gly
				645					650					655	
Leu	Lys	Lys	Arg	Phe	Gly	Lys	Lys	Ala	Ala	Val	Pro	Thr	Pro	Arg	Leu
			660					665					670		
Tyr	Thr	Glu	Ala	Leu	Gln	Glu	Lys	Met	Gln	Arg	Gly	Phe	Leu	Ala	Gln
		675					680					685			
Lys	Leu	Gln	Gln	Tyr	Lys	Arg	Phe	Val	Glu	Asn	Tyr	Arg	Arg	His	Ile
	690					695					700				
Val	Cys	Val	Ala	Ile	Phe	Ser	Ala	Ile	Cys	Val	Gly	Val	Phe	Ala	Asp
705					710					715					720
Arg	Ala	Tyr	Tyr	Tyr	Gly	Phe	Ala	Leu	Pro	Pro	Ser	Asp	Ile	Ala	Gln
				725					730					735	
Thr	Thr	Leu	Val	Gly	Ile	Ile	Leu	Ser	Arg	Gly	Thr	Ala	Ala	Ser	Val
			740					745					750		
Ser	Phe	Met	Phe	Ser	Tyr	Ile	Leu	Leu	Thr	Met	Cys	Arg	Asn	Leu	Ile
		755					760					765			
Thr	Phe	Leu	Arg	Glu	Thr	Phe	Leu	Asn	Arg	Tyr	Val	Pro	Phe	Asp	Ala
	770					775					780				
Ala	Val	Asp	Phe	His	Arg	Trp	Ile	Ala	Met	Ala	Ala	Val	Val	Leu	Ala
785					790					795					800
Ile	Leu	His	Ser	Ala	Gly	His	Ala	Val	Asn	Val	Tyr	Ile	Phe	Ser	Val
				805					810					815	
Ser	Pro	Leu	Ser	Leu	Leu	Ala	Cys	Ile	Phe	Pro	Asn	Val	Phe	Val	Asn
			820					825					830		
Asp	Gly	Ser	Lys	Leu	Pro	Gln	Lys	Phe	Tyr	Trp	Trp	Phe	Phe	Gln	Thr
		835					840						845		
Val	Pro	Gly	Met	Thr	Gly	Val	Leu	Leu	Leu	Leu	Val	Leu	Ala	Ile	Met
	850					855					860				
Tyr	Val	Phe	Ala	Ser	His	His	Phe	Arg	Arg	Arg	Arg	Phe	Arg	Gly	Phe
865					870					875					880
Trp	Leu	Thr	His	His	Leu	Tyr	Ile	Leu	Leu	Tyr	Ala	Leu	Leu	Ile	Ile
				885					890					895	
His	Gly	Ser	Tyr	Ala	Leu	Ile	Gln	Leu	Pro	Thr	Phe	His	Ile	Tyr	Phe
			900					905					910		
Leu	Val	Pro	Ala	Ile	Ile	Tyr	Gly	Gly	Asp	Lys	Leu	Val	Ser	Leu	Ser
		915					920					925			
Arg	Lys	Lys	Val	Glu	Ile	Ser	Val	Val	Lys	Ala	Glu	Leu	Leu	Pro	Ser
	930					935					940				
Gly	Val	Thr	Tyr												





<210> 697  
 <211> 289  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 50, 86, 207  
 <223> n = A,T,C or G

<400> 697  
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 acccatcagg ccaagcagga cttgtnaaac atacacattc aagttcctag cacacagtag 120  
 gtgctaagtg ggaattgatt ataaacttga attcttccat caacaaatat ctacctctcc 180  
 tgtccagctt gcctcagatc ttcaggntct ctcttctctg aggcagctaa gcttctacat 240  
 ccttcatgaa gtttccttta cttctcgaca gaagacagtt ccctttagg 289

<210> 698  
 <211> 193  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 171  
 <223> n = A,T,C or G

<400> 698  
 aaagtttgtg ctataaaatt gtgcaaatat gttaaggatt gagaccacc aatgcactac 60  
 tgtaatatgt cgcttcctaa atttcttcca cctacagata atagacaaca agtctgagaa 120  
 actaaggcta accaaactta gatataaatc ctaccaataa aatttttcag ntttaagttt 180  
 tacagtttga ttt 193

<210> 699  
 <211> 279  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 60, 126  
 <223> n = A,T,C or G

<400> 699  
 ccttcccccc ccttccttat gagttctaac ttagtaattt caaatgtgac cttttatatn 60  
 taagaccagt atagtaaact tagccacag tggcaaataa tgagtaatat tgtaatatgt 120  
 tccagnggga taccctcctt gtcttgaatt ttggctttga cattctcaat ggtgtcactg 180  
 ggctcgacct caagggtgat ggttttgccg gtgagggtct tcacaaagat ctgcatgttt 240  
 gcgtccgcac gaccgccgcc accaaccagc tcggccgcc 279

<210> 700  
 <211> 340  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 174  
 <223> n = A,T,C or G

<400> 700  
 ctgtccaatg acaacaggac cctcactcta ctcagtgtca caaggaatga tgtaggaccc 60  
 tatgagtgtg gaatccagaa caaattaagt gttgaccaca ggcacccagt catcctgaat 120  
 gtcctctatg gccagacga ccccaccatt tccccctcat acacctatta ccgnccaggg 180  
 gtgaacctca gcctctcctg ccatgcagcc tctaaccacac ctgcacagta ttcttggtg 240  
 attgatggga acatccagca acacacacaa gagctcttta tctccaacat cactgagaag 300  
 aacagcggac tctatacctg ccaggccaat aactcagcca 340

<210> 701  
 <211> 277  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 13, 29, 109, 117, 182  
 <223> n = A,T,C or G

<400> 701  
 ccactggctg agntattggc ctggcaggna tagagtccgc tgtttctctc agtgatgttg 60  
 gagataaaga gctcttgtgt gtgttgctgg atgttcccat caatcagcna agaatanagt 120  
 gcagggtggg tagaggctgc atggcaggag aggctgaggg tcacccctgg acggtaatag 180  
 gngtatgagg gggaaatggt ggggtcgtct gggccataga ggacattcag gatgactggg 240  
 tcgctgtggt caacacttaa tttgttcttg attccac 277

<210> 702  
 <211> 255  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 27, 42, 86  
 <223> n = A,T,C or G

<400> 702  
 ctgcgcgtcg ccaaagtgc aggcgngcgc gcctccaagc tntctaagat ccgagtcgtc 60  
 cggaaatcca ttgcccggtg tctcanagtt attaaccaga ctcagaaaga aaacctcagg 120  
 aaattctaca agggcaagaa gtacaagccc ctggacctgc ggcctaagaa gacacgtgcc 180  
 atgcgccgcc ggtcaacaa gcacgaggag aacctgaaga ccaagaagca gcagcgggaag 240  
 gagcggctgt acccg 255

<210> 703  
 <211> 224  
 <212> DNA  
 <213> Homo sapiens

<220>

<221> misc\_feature

<222> 13, 42, 43, 74, 89, 179, 210, 216

<223> n = A,T,C or G

<400> 703

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aggacagcag gggncctggg gtttttagcnt ctggccagg agttatgtgt ccataaccaa 120
agggagcaca gtctgcaccc agctctcatc ccatcgagc tgctgcgact cccgcaggnt 180
cttcggaac tggtttagct tgcccgagn atcagnaaag tttg 224
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<210> 704

<211> 445

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 251, 313, 392, 427

<223> n = A,T,C or G

<400> 704

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aggtaaaaaag cagcctgggc aagagaagtg ggtgggttta ggagaatccc ttctgaaaaa 60
ttcagagcat tattattaat ccttcttaaa tttaatgcag ggccaagcat gctgcacgtg 120
gaatctggac aattttttga taaactttta ggctgctaaa taatttacag aaactgtgaa 180
tgcattttca ttttacgagg caaaagagaa aatattcaag attgcatagc aattttattt 240
tttgaaatgg ntatcctaaa gaatttcctt aaattcagat ttgcaaaaat tcctactctc 300
caagtcacatc agngaacact aaaagcaact ttactcgtga atacagggga ctctttacga 360
ggcatgcatt ttccataaat ctaggccaaa gngaactaat tgagatttaa ttctaaattc 420
atcctgngat ttctgcatat aatat 445
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<210> 705

<211> 107

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 8, 29, 32, 46, 47, 54, 62, 70, 91, 102, 103

<223> n = A,T,C or G

<400> 705

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atcacccnat ttaattaaaa atccctggnc tnaggaccta cagcanngta ctgnagaact 60
tnagaacctn aattagccat ttgccatctt nagagagtct tnnccat 107
```

<210> 706

<211> 113

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 22, 105

<223> n = A,T,C or G



<400> 706  
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 ttgggggggat gctttcactg cttcacttcc tttctatgac agctnaggga atc 113

<210> 707  
 <211> 283  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 47, 127, 132, 135, 159, 208, 221, 223, 236, 276  
 <223> n = A,T,C or G

<400> 707  
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 ccgtgtggtg atccagcgtg atgaggggtca ccacgtggcc tacaccacgc gggaggtggg 120  
 ccagtancctg gnggnggagt ccagcacggg catcatcgnc atctgggaca agaggaccac 180  
 cgtgttcctc aagctggctc cctcctanaa gggcacctg ngnggcctgt gtgggnactt 240  
 tgaccaccgc tccaacaacg acttcaccac gcgggnccac atg 283

<210> 708  
 <211> 341  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 182  
 <223> n = A,T,C or G

<400> 708  
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 gtcctctatg gccagacga cccaccatt tccccctcat acacctatta ccgtccaggg 180  
 gngaacctca gcctctctg ccatgcagcc tctaaccac ctgcacagta ttcttggtg 240  
 attgatggga acatccagca acacacaaa gagctcttta tctccaacat cactgagaag 300  
 aacagcggac tctatacctg ccaggccaat aactcagcca g 341

<210> 709  
 <211> 376  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 62, 110, 115, 116, 155, 167, 203, 218, 286, 320, 328, 337  
 <223> n = A,T,C or G

<400> 709  
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 anaccgaggg tcgagccgtg ctgcacgtgg ctctgcggaa ccggtcaaan acacnnatcc 120  
 tggtagacgg caaggatgtg atgccagagg tcaanaaggt tctgganaag atgaagtctt 180  
 tctgccagcg tgtccggagc ggngactgga aggggtanac aggcaagacc atcacggacg 240





<220>

<221> misc\_feature

<222> 59, 74, 77

<223> n = A,T,C or G

<400> 716

aaacttttta tttgcatatt aaaaaaattg tgcattccaa taattaaaat catttgaana 60  
 aaaaaaaaaat ggcncnttga ttaaaactgca ttacag 96

<210> 717

<211> 366

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 104, 224, 233, 343

<223> n = A,T,C or G

<400> 717

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 agtatcatatc tggatgccat ccgggaatat gaggaggtag aagngctcct ctctgataaa 120  
 gcaaaaagatc gagatcctga aatggaaaat gaagaacaac catcctctga aaatgattct 180  
 cagaatcaga gtggtgaaca gatttcatca agttctcagg aggntgattt ggntgatcaa 240  
 gagtcttctg aggaaaattc tctaaattct caccacagaat cattatctct agcagatatg 300  
 gacaatgctg caagcatttc ccttctgaa cagacttcta atnccacaga aaaccatgag 360  
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<210> 718

<211> 200

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 17

<223> n = A,T,C or G

<400> 718

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 tgaagaagat ttgggcaaat aatctgcata cttttaattg ggaataagat ggaaaaatatg 180  
 aatgctaaat caaatttttt 200

<210> 719

<211> 336

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 71, 260, 314

<223> n = A,T,C or G

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 gcagcctgag ngtaactccc tccttttcta tctgagctct tcctcctcca catcacggca 120  
 gcgaccacag ctccagtgat cacagctcca aggagaacca ggccagcaat gatgcccacg 180  
 atggggatgg tgggctggga agacagctcc catctcaggg tgaggggctt gggcagaccc 240  
 tcatgctgca catggcaggn gtatctctgc tcctctccag aaggcaccac cacagccgcc 300  
 cacttctgga aggntocatc cccttgagc ccttgg 336

<210> 720  
 <211> 167  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 31, 46, 47  
 <223> n = A,T,C or G

<400> 720  
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 agctgctgtt gacggaggca agttggatgt cgggaatgct gaggtgaagt tggaggaaga 120  
 gaacaggagc ctgaaggctg acctgcagaa gctaaaggac gagctgg 167

<210> 721  
 <211> 134  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 39, 56, 102  
 <223> n = A,T,C or G

<400> 721  
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 aggagggctg agagggcccc tgtaggggt catgggctgg gntttacgtg cgtgaggagg 120  
 ggcggagctt gcag 134

<210> 722  
 <211> 353  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 214, 290, 299  
 <223> n = A,T,C or G

<400> 722  
 aaaaatatat acaactatga tgttcaaata tgtattctga gccattatgt tcaaacataa 60  
 atatctggga aattcaaact gctgcaacaa gttaggaaag gattaaggaa aaatgatgag 120  
 ctacaaatta ttagtttggga ggaagaaaaa aatgttactt agcatttatg tctggatagg 180  
 tatgtatttt ctaattttaca tacacatatc cagntgagta tagacaacca tcaaatgta 240  
 accagttaca cagagactag actaagccaa cactattttc tataacaggn aacagtagng 300



<210> 726  
 <211> 305  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 112, 118, 187, 284  
 <223> n = A,T,C or G

<400> 726  
 ttgcctgatg tcagagcccc tccacacatg agcctgctcc ctactgccaa caccgtggcc 60  
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 cagatcgatga ggaaaaagggt cgccgagggt gggggcatgt ctctcttctt accaagctag 180  
 actgggntgc cttttctaac tattccagcc ctacagggtg aggggccata atggagtatc 240  
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 gccag 305

<210> 727  
 <211> 387  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 131, 151  
 <223> n = A,T,C or G

<400> 727  
 ccaacgaggc atcacctctg acggtgtcag tcatcgatga ccggctcaag gagaagatgg 60  
 tgggtggagtt ccgccacatg aggaaccatg cctatgagcc actcgccagc ttcctagact 120  
 tcattactta nagttacatg atcgacaacg ngatcctgct catcacaggc acgctgcacc 180  
 agcgctccat cgctgagctc gtgcccaagt gccaccact aggcagcttc gagcagatgg 240  
 aggccgtgaa cattgtctcag acacctgctg agctctacaa tgccattctg gtggacacgc 300  
 ctcttgccgc ttttttccag gactgcattt cagagcagga ccttaacgag atgaacatcg 360  
 agatcatccg caacaccctc tacaagg 387

<210> 728  
 <211> 109  
 <212> DNA  
 <213> Homo sapiens

<400> 728  
 ctgactgaca gccagattgc agatgtggct cgcttttgta accgctaccc taatatcgaa 60  
 ctatcttatg aggtggtaga taaggacagc atccgcagtg gcgggccag 109

<210> 729  
 <211> 329  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature

<222> 247, 281, 304  
 <223> n = A,T,C or G

<400> 729  
 aaagcatagg actatagtca gcatgctaga ctgagaggta aacactgatg caattagaac 60  
 aggtactgat gctgtcagtg ttttaacta tgtttagctg tgtttatgct ataaaagtgc 120  
 aatatttagac actagctagt actgctgcct catgtaactc caaagaaaac aggatttcat 180  
 taagtgcatt gaatgtggct atttctctaa gttactcata ttgtcctttg cttgaatgca 240  
 atgccgngca gatttatgtg gctgctattt ttattttctg ngcattactt taacacctta 300  
 aagnagaag caaacatttc cttcttcag 329

<210> 730  
 <211> 238  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 67, 204  
 <223> n = A,T,C or G

<400> 730  
 aaaaagtggc agagtgactt aactgatcat gcatgatccc tcatccctga aattgagttt 60  
 atgtagnocat ttacttatt ttattcatta gctaactttg tctatgtata tttctagata 120  
 ttgattagtg taatcgatta taaaggatat ttatcaaactc cagggattgc attttgaaat 180  
 tataattatt ttctttgctg aagnattcat tgtaaaacat acaaaataaa catatattt 238

<210> 731  
 <211> 297  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 202, 254  
 <223> n = A,T,C or G

<400> 731  
 aaactgaatt ttttgacctt ggaaaatatt tttcttactt taccaaggtg aagtttcctt 60  
 aattagacta attatattat cccatccca gggataaac aggaattgtt ttgatagtgg 120  
 tggagttatt cactgcaaca aagcaacaat gttgtccatg attcaaaatc taagcagttt 180  
 cgattttgcc tgtgaatatg gngtctgtca ttcagggcat agctcactgt aggctagcct 240  
 ctgcttactt aagnctcttc tctgacatac tcaatggaag aatattttaga tttattt 297

<210> 732  
 <211> 370  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 88, 104, 131, 184  
 <223> n = A,T,C or G



<400> 732  
 ctgtcagtct tcttgaaatg aagaaactac accagggctg ctatatcaga gcaaccccaa 60  
 ccagcactcc aatcatgatg ccgacagngg cccaattag aagntcaaaa acaaaaatta 120  
 agttaggtag ncagacatct ataaatacta gtatccgcat gaatgaaaac accctggctt 180  
 tggnatggct acagaaatcc atctggaaat tattcaaaag gacgtgggtc agggaaaagg 240  
 gggtaggcag ggcatggggg gaggggaaca caaaaaccc ccaagcagag gtaaaatgaa 300  
 tattggaaca caccgcagc aaacactgta catagacttg aggcagatgc ctctaacaca 360  
 acacatatac 370

<210> 733  
 <211> 242  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 129  
 <223> n = A,T,C or G

<400> 733  
 cctcctatattt attctagcca cctctagcct agccgtttac tcaatcctct gatcaggggtg 60  
 agcatcaaac tcaaaactacg ccctgatcgg cgcactgcga gcagtagccc aagcaatctc 120  
 atatgaagnc accctagcca tcattctact atcaacatta ctaataagtg gtccttttaa 180  
 cctctccacc cttatcacia cacaagaaca cctctgatta ctctcgccat catgaccctt 240  
 gg 242

<210> 734  
 <211> 368  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 154, 188, 311  
 <223> n = A,T,C or G

<400> 734  
 cctttcttgt aagtgaagaa aaaggaatgc agcaaagaag agttcgacat tggagtcctt 60  
 agttccatca ggatcccatc cgcagccttt agcatcatgt agaagcaaac tgcacctatg 120  
 gctgagatag gtgcaatgac ctacaagatt ttgngttttc tagctgtcca ggaaaagcca 180  
 tcttcagnct tgctgacagt caaagagcaa gtgaaacat ttccagccta aactacataa 240  
 aagcagccga accaatgatt aaagacctct aaggctccat aatcatcatt aaatatgccc 300  
 aaactcattg ngacttttta ttttatatac aggattaaaa tcaacattaa atcatottat 360  
 ttacatgg 368

<210> 735  
 <211> 308  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 92, 101, 120, 216, 279  
 <223> n = A,T,C or G

<400> 735  
 ctgtccaata ggcgtagcta tccggacaga gcacgtttgc agaaggggga ctcttcttcc 60  
 aggtagctga aaggggaaga cctgacgtac tntgggttagg ntaggacttg ccctcgtggn 120  
 ggaaactttt cttaaaaagt tataaccaac ttttctatta aaagtgggaa ttaggagaga 180  
 aggtaggggt tgggaatcag agagaatggc tttggncctt tgcttggtgg actagcctgg 240  
 cttgggacta aatgccctgc tctgaacacg aagcttagna taaactgat gatatcccta 300  
 ccttgaag 308

<210> 736  
 <211> 354  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 57  
 <223> n = A,T,C or G

<400> 736  
 ccttctgcta cgtagtctac aacagaagga ttcaggcaat tacctctgcc atgcggnnga 60  
 acatgggttc atacaaactc ttcttaaggt aaccctggaa gtcattgaca cagagcattt 120  
 ggaagaactt cttcataaag atgatgatgg agatggctct aagaccaaag aaatgtccaa 180  
 tagcatgaca cctagccaga aggtctggta cagagacttc atgcagctca tcaaccaccc 240  
 caatctcaac acgatggatg agttctgtga acaagtttgg aaaagggacc gaaaacaacg 300  
 tcggcaaagg ccaggacata cccaggggaa cagtaacaaa tggaagcact taca 354

<210> 737  
 <211> 198  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 59, 184  
 <223> n = A,T,C or G

<400> 737  
 ctgccgctgc acacgctcgt tcttctctgc ctcaagtatg cgcttctcct cattgcggn 60  
 atcccggatg ccctcactag acagctccgc gctgtagccc gtgggctctg cgccctcatc 120  
 ctgcaagctc tcttgacat ggtagctcac cggctcgtac acgggggggtg gtgggggctg 180  
 gggngctgtc atcaccag 198

<210> 738  
 <211> 228  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 36, 93, 202, 221  
 <223> n = A,T,C or G

<400> 738

```

gtgccatggc acacagcctg ggtgcacacc cagcgcncctc tcttgacagt gcaggtattg 60
cagtccacct tgatcttggc gccggaagaa tanaggtcgt tgttatggac gcaagggcat 120
tcctttctcca ccacgcagcc accccggccg tcatccatca gcccgtcggg gcacacacag 180
ccactgacac actctgtgtg gnaatagccg gcggccagcg nctggcag 228

```

```

<210> 739
<211> 378
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 124, 136, 169, 200, 230, 233, 247, 332, 339
<223> n = A,T,C or G

```

```

<400> 739
aaaaaataca ggagtcgata gcagcagttg gtgacgagat ggcactcaga aacggcgttg 60
acgtaattta ggacgtggaa tcataagcga aacagcacac tgtttgaata aagagcgagt 120
cggnatattat atttgntttt cttttgtcat gattatttga tttttaagnt gctccagcta 180
aggcattttt ttgtattagn atttctatta gggaaccttt cttattaggn ggnttgattt 240
gtctggnntt taacatgcag gtagctgttt ggcagttaaa cacgtttaga gtaatttgag 300
ttacaacgtg tgaaactgag caaaaaagca gngataagnt tgggttacca taccaaatat 360
ttgttttccc actggaaa 378

```

```

<210> 740
<211> 200
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 13, 95
<223> n = A,T,C or G

```

```

<400> 740
ccacttgagt ggntcctggc tgcttctgtg attgttaggt cttgagagat tatggacccg 60
aggcattctg ggtaccccat caattggctg atggncttct atttgggctg cgcttcttct 120
aaaaagggga gctcaaaggt ctttttttcc cccactgcag agctaaaaaa gtccctgtac 180
gccatcttct cccagtttgg 200

```

```

<210> 741
<211> 273
<212> DNA
<213> Homo sapiens

```

```

<400> 741
ctgcttgga ctcgtaatggg ccggtggcat catgagcccc agaatcagcc ttgccaggtc 60
tccagagatc tcagacttca ggtcagtcac taagtcgccg ccaaagttag acttgaaggt 120
ctgccggatc tgctgcgcgt ggacattgct gcggtgcgtg atgatatcga tgattgtgtc 180
ttcgtcagtc ccgagtcctt tcatggcttt ccgcagcgtt ttggcatctg cgtcaggggt 240
gaagtcattg gctgggcgca caggtccttt cag 273

```

```

<210> 742
<211> 297

```

<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 89, 188, 264, 266  
<223> n = A,T,C or G

<400> 742  
ctgcagttgc tcccttttagg gttataaaat aatgacccaa atgttacatg tgttgatatt 60  
ataacttgtc agttactgat gtctgtggna tcctaccctc atctctgaaa gggataatac 120  
tgaataatta ttagaaaact ataaaacttc acactttgta ccattaaaac ctaaaatttt 180  
aatcttgncc ttttttacta tggatcagtc ggcactcggg aacagcagca aggaaaagag 240  
gcaaatttca ttcacatggt ctgngntcat acctcttctc tacctaattg ttcattt 297

<210> 743  
<211> 381  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 240, 243, 252, 291, 305, 321, 324, 327, 342  
<223> n = A,T,C or G

<400> 743  
ctgcacctcc acctccttga agttgaagat actattgcc a tcaaagccag cagccagctc 60  
tggacagtat gcttcagagg aacctccatg ccggctcagt gacacactct ctgcagccag 120  
ggtaatgaac ttgtccctcag ctacaaaagc tgtgagcttg gctgtgctca cctccagggt 180  
taggttttagc agccgctttg ggggtaatgg ctcaggggca cggccttcta gctcagaagn 240  
agntcctgaa gnctctagtg caagggatgg tacagtctca ggaaacacag nggctcttag 300  
taggnctcgg cactgtagag ngngngnatc cccagagctg gngatgattt ggttgtcatc 360  
caggaagcgg caacacgaca g 381

<210> 744  
<211> 167  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 6, 78  
<223> n = A,T,C or G

<400> 744  
cagcgnngggg ctcggagagg tgctcggatt ctcgtagctg tgccgggact taaccaccac 60  
catgtcgagc aaaagaanaa agaccaagac caagaagcgc cctcagcgtg caacatccaa 120  
tgtgtttgct atgtttgacc agtcacagat tcaggagttc aaagagg 167

<210> 745  
<211> 96  
<212> DNA  
<213> Homo sapiens

<400> 745  
ccacaaactc ctctggctgt actccctcct gcaggagacc ggcctcactg cactcagcag 60  
gctctttctcc ctgcgattca cttctgggac agtcac 96

<210> 746  
<211> 391  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 257  
<223> n = A,T,C or G

<400> 746  
ccattacgca gccgcttcag caaacagggc tctctccggc ccgagggcgg gaccacagtg 60  
gccgtcagca ggctgagatc cgtctctgag atgttgatgg ggatgtcggc agcagagccg 120  
acctttaggt gggacatacg catggagtcg tcacctgtga cccgggcagt gaaggggctg 180  
cctgggacgt gctgttcatt gtacttgact agaatgctgt agtcccccg cagcacaggc 240  
aagtaggaca cgctgcnatg tcccatcctg gttgtcagt cagtgttgct tgttcagtat 300  
ctcaagccca gaaagatgaa ttaatccttg aaggaaatga cattgagctt gtttcaaatt 360  
cagcggcttt gattcagcaa gccacaacag t 391

<210> 747  
<211> 408  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 71, 233, 367  
<223> n = A,T,C or G

<400> 747  
aaagttgttt gtgccttttt atttttgttt ttaatgcttt gatatttcaa tgttagcctc 60  
aatttctgaa naccataggt agaatgtaaa gcttgctga tcgttcaaag catgaaatgg 120  
atacttatat ggaaattctg ctgagataga atgacagtcc gtcaaaacag attgcttgca 180  
aaggggaggg atcagtgtcc ttggcaggct gattttctagg taggaaatgt ggnagcctca 240  
cttttaaatga acaaattggcc ttattataaaa actgagtgc tctatatagc tgatcagttt 300  
tttcacctgg aagcatttgt ttctactttg atatgactgt ttttcggaca gtttatattgt 360  
tgagagngtg accaaaagtt acatgtttgc acctttctag gtgaaaat 408

<210> 748  
<211> 337  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 34, 63, 224, 302  
<223> n = A,T,C or G

<400> 748  
ggcggagaga ggcgagcacc gggaagggga gcnnggggcc gctggaatgg gtgaatttaa 60

```

ggnccatcga gtacgtttct ttaattatgt tccatcagga atccgctgtg tggcttacia 120
taaccagtca aacagattgg ctgtttcacg aacagatggc actgtggaaa tttataactt 180
gtcagcaaac tactttcagg agaaattttt cccaggtcat gagnctcggg ctacagaagc 240
tttgtgctgg gcagaaggac agcgactctt tagtgctggg ctcaatggcg agattatgga 300
gnatgattta caggcgtaa acatcaagta tgctatg 337

```

```

<210> 749
<211> 261
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 112, 151, 163, 226, 253
<223> n = A,T,C or G

```

```

<400> 749
ccgggagggt ctgattatgt acccaccaca ggtaggttgt gttctgaatc tcagggtcac 60
aggttaaggc tacagcatcc tcaccccca cgggggttga gttgttgctg gngatgaagg 120
gtttgggtgg ctctgcatag actgtgatcg ncgtgactgt ggncctattg aggccagtgt 180
ctgagttatg ggcttggcac gtataggatc cactattatt cacagngatg ttggggataa 240
agagctcttg ggnggattgc t 261

```

```

<210> 750
<211> 150
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 9, 56, 57, 146, 148, 149
<223> n = A,T,C or G

```

```

<400> 750
aacgctgang acatgacatc caaagattac tactttgact cctacgcaca ctttggnatc 60
cacgaggaga tgctgaagga cgaggtgcgc accctcactt accgcaactc catgtttcat 120
aaccggcacc tcttcaagga caaggngnng 150

```

```

<210> 751
<211> 288
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 131, 276
<223> n = A,T,C or G

```

```

<400> 751
aaaacttttg ttaagaaaaa ctgccagttt gtgcttttga aatgtctgtt ttgacatcat 60
agtctagtaa aattttgaca gtgcataatgt actgttacta aaagctttat atgaaattat 120
taatgtgaag nttttcattt ataattcaag gaaggatttc ctgaaaacat ttcaagggat 180
ttatgtctac atatttgtgt gtgtgtgtgt gtatatatat gtaatatgca tacacagatg 240
catatgtgta tatataatga aatttatgtt gctggnattt tgcatttt 288

```

<210> 752  
 <211> 248  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 188  
 <223> n = A,T,C or G

<400> 752  
 ctggcactga ggattatata catataagaa ttcaacagag aaacggcagg aagaccctta 60  
 ctactgtcca agggatcgct gatgattacg ataaaaagaa actagtgaag gcgtttaaga 120  
 aaaagtttgc ctgcaatggt actgtaattg agcatccgga atatggagaa gtaattcagc 180  
 tacagggnga ccaacgcaag aacatatgcc agttcctcgt agagattgga ctggctaagg 240  
 acgatcag 248

<210> 753  
 <211> 346  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 137, 313  
 <223> n = A,T,C or G

<400> 753  
 ctgctagaaa acaggggaaga tattagccaa tatggaattg ccaggttctt cactgaatat 60  
 tttaacagtg tatgccaggg aacacacatt ctctttcgag aattcagctt cgtccaagcc 120  
 accccccaca atagggnatc atttttacgg gccttctgga gatgcttccg aactgtgggc 180  
 aaaaatggcg atttgctgac catgaaagaa tatcactgtt tgctgcaatt actgtgtcct 240  
 gatttccgcg tggagctcac tcagaaagca gccaggattg tgctcatgga cgatgccatg 300  
 gactgcttga tgnctttttc agatttcctc ttgaccttcc agatcc 346

<210> 754  
 <211> 100  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 22, 71  
 <223> n = A,T,C or G

<400> 754  
 gtgccacagg cagccctggg anataggaag ctgggagcaa ggaaagggtc ttagtcactg 60  
 cctcccgaag ntgottgaaa gcactcggag aattgtgcag 100

<210> 755  
 <211> 405  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 214, 305, 366, 368, 378  
 <223> n = A,T,C or G

<400> 755  
 tgtgggcca cttcccaaat ctctggagga tctgcagctt actcataaca agatcacaaa 60  
 gctgggctct tttgaaggat tggtaaacct gaccttcac cactccagc acaatcggct 120  
 gaaagaggat gctgtttcag ctgcttttaa aggtcttaaa tcaactcgaat accttgactt 180  
 gagcttcaat cagatagcca gactgccttc tggntccct gtctctctc taactctcta 240  
 cttagacaac aataagatca gcaacatccc tgatgagtat ttcaagcgtt ttaatgcatt 300  
 gcagnatctg cgtttatctc acaacgaact ggctgatagt ggaatacctg gaaattcttt 360  
 caatgngnca tccctggntg agctggatct gtccataaac aagct 405

<210> 756  
 <211> 306  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 112, 157, 186, 271  
 <223> n = A,T,C or G

<400> 756  
 ccttgggaaa ttacctggaa atgcgactga aatcttcctt cctgaggggt ctgggctctt 60  
 ggaaatcaaa cctctcagg ttgggtggct ggacgattct cctcacactt anaatgggac 120  
 aaggggaacc aggaggcccc caaggggatc cctgggntcc acacgaactc ctccctaccct 180  
 cattgngtga cagcagccat gcctcctcct ggggatcagg atctattacc tgtgcctgga 240  
 gaggagggga ctccctctct caccgctgg nctctggaca catactgtcc aattccccctg 300  
 tggcag 306

<210> 757  
 <211> 321  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 12, 46, 65, 79, 92, 127, 180, 186, 204, 208, 235, 275  
 <223> n = A,T,C or G

<400> 757  
 ctggaggag gntccctggg aggtttttgt ggattccttc tgcagnact cccctgggtt 60  
 ctgntcttgg ggaccagng tccaggcgca gncttttagc acttctcagt gtagacgttg 120  
 acaggntct tttcccgctt gaatcctgct gagtcccca atctcttgac ttgtcttggn 180  
 tacagnacc accagagctg ctncagntt tgacaaaagc agttgctgct gaagngatcg 240  
 ttttgaatcc tatcatagca ctggcaggtc ccggnaaatt cttacagtca gcaggcggac 300  
 ctcgtgtgag ttgaatatc c 321

<210> 758  
 <211> 278  
 <212> DNA



<213> Homo sapiens

<220>

<221> misc\_feature

<222> 12, 54, 111, 149, 220, 226, 273

<223> n = A,T,C or G

<400> 758

```
cgctcggcaa gntctcccag gagaaagcca tggttcagttc gagcgccaag atcntgaagc 60
ccaatggcga gaagccggac gagttcgagt ccggcatctc ccaggctctt ntggagctgg 120
agatgaactc ggacctcaag gctcagctna gggagctgaa tattacggca gctaaggaaa 180
ttgaagttgg tgggtggtcgg aaagctatca taatctttgn tcccgntcct caaacctgcc 240
cgggcggcgg cttcgagccc tatagtgagg cgnattag 278
```

<210> 759

<211> 401

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 268, 301, 318, 321, 333, 367

<223> n = A,T,C or G

<400> 759

```
gcaaactgca aaccatggtg agaaattgac gacttcacac tatggacagc ttttcccaag 60
atgtcaaaaac aagactcctc atcatgataa ggctcttacc cccttttaat ttgtccttgc 120
ttatgcctgc ctctttcgct tggcaggatg atgctgtcat tagtatttca caagaagtag 180
cttcagaggg taacttaaca gagtatcaga tctatcttgt caatccaac gttttacata 240
aaataagaga tccttttagt caccagnga ctgacattag cagcatcttt aacacagccg 300
ngtgttcaaa tgtacagngg nccttttcag agntggactt ctagactcac ctgttctcac 360
tccctgnttt aattcaacce agccatgcaa tgccaaataa t 401
```

<210> 760

<211> 346

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 278, 335

<223> n = A,T,C or G

<400> 760

```
ccgaggtttg gatcatggga gaacagcaga aaggggttat tgaggggaacc tacactgttc 60
tagctgcacc ccatgccctt ctgagaggaa agcctggcat tgattagata ctgggcccaga 120
ctaatactgg cagcagagcc agtgatagta acctgcctac cagaggagcc ttccactggg 180
ttggcaatth ttgatctgggc cccggacatc tggcgatct cattaatgtt ggcgcttgg 240
cgcccgatth tgcagccaat taagttatth ggaatggnga gttcatgggt ggthtgagta 300
gatgcatcca aacttgccca atagcctthc acctntggag agacct 346
```

<210> 761

<211> 256

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 159, 185, 196

<223> n = A,T,C or G

<400> 761

```
gagacagact gggatgatgac gctgaatctg cagaggtgct ggtgaccaat tcccctaaag 60
catctacttg tctctcctaaa ctgtgtaaaag tgccctctgt ctgccgcttt cctttaatta 120
atacttctgc ttgcttggac atacagtgtc ggagttggnc ctgaaaagtg tgataagact 180
taggnnttta cacagnaaga aatgtaccag aactgctgct cagcttcctc acatacattt 240
gataggcaaa tctagc 256
```

<210> 762

<211> 321

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 12, 39, 162

<223> n = A,T,C or G

<400> 762

```
tggactctgg antgatgctg gaagtagata cgaaaatgng aagaacaatg gaacagcaca 60
ctttctggag catatggctt tcaagggcac caagaagaga tcccagttag atctggaact 120
tgagattgaa aatatgggtg ctcatctcaa tgcctatacc tncagagagc agactgtata 180
ctatgccaaa gcatttctta aagacttgcc aagagctgta gaaattcttg ctgatataat 240
acaaaacagc acattgggag aagcagagat tgaacgtgag cgtggagtaa tccttagaga 300
gatgcaggaa gttgaaacca a 321
```

<210> 763

<211> 348

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 52, 66, 114, 127, 144, 152, 177, 200, 214, 261, 331

<223> n = A,T,C or G

<400> 763

```
tgagaaaaca taaagtaacc agcagatttc aatattaaaa agaagtgggt cntcctaaaa 60
aaggtnttag atcatagagt tgggattagg gtaggggata cctattaatc tggnctggaa 120
aaaaagngtg tggagaaggg gagntgtatt gntttctcac aagaggcaaa cttcagncaa 180
acaatgaaga gatagtaggn agggagatgt gtgntagacc aaagactttc tgattgctga 240
taataacaaa tttagcagct ntctacaagt caattaaaaat accattctct gagacatttt 300
cagagaggag ctaactaaca cccaccag nggaaaaatc attctaca 348
```

<210> 764

<211> 374

<212> DNA

<213> Homo sapiens



<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 203  
<223> n = A,T,C or G

<400> 767  
ggctttctca ataagcctca gctttctaag atctaacaag atagccaccg agatccttat 60  
cgaaactcat tttaggcaaa tatgagtttt attgtccgtt tacttgtttc agagtttgta 120  
ttgtgattat caattaccac accatctccc atgaagaaag ggaacggtga agtactaagc 180  
gctagaggaa gcagccaagt cgnttagtgg aagcatgatt ggtgccagc tagcctctgc 240  
aggatgtgga aacctccttc caggggaggt tcagtgaatt gtgtaggaga ggttgtctgt 300  
gg 302

<210> 768  
<211> 94  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 62, 63, 73, 86  
<223> n = A,T,C or G

<400> 768  
ctgatctaaa agaagttact gaggaagatt tgaataatca ctttaagtct ttgggaagca 60  
gnnatttgaa atnttgaggt gacagncttt taag 94

<210> 769  
<211> 69  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 36, 40, 53  
<223> n = A,T,C or G

<400> 769  
ctgcaagacg actccaaccc aacaacaacc agatgngctn cagcccagcc ggncttcagt 60  
tccatattt 69

<210> 770  
<211> 222  
<212> DNA  
<213> Homo sapiens

<400> 770  
ctgaacgcaa accagccact ttaattaagc taagccctta ctagaccaat gggacttaaa 60  
cccacaaaca cttagttaac agctaagcac cctaataaac tggcttcaat ctacttctcc 120  
cgccgcggg aaaaaaggcg ggagaagccc cggcaggttt gaagctgctt cttcgaattt 180  
gcaattcaat atgaaaatca cctcggagct ggtaaaaaga gg 222

<210> 771  
 <211> 332  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 262  
 <223> n = A,T,C or G

<400> 771  
 ctgcttttccc tcctatggct cccctggaac aggagggaga gccaaagggg cggccccagcc 60  
 tggacagcgc ccgctcctgc ctgggtgcac acacggcggg cctgagctcc agcatctgag 120  
 tttgggggta tgagaaacag gggagcagaa ggagaagaaa actgcctgtg ctgcaacacg 180  
 tttcctcatt tattttttct ttctttttct ttttttcttt ttttggaggg agaggctccct 240  
 gcaagggtccc ttcccgggca gnggagggat ggaaatgccg tcacagtagt agggactgga 300  
 gcgtctacaa ggatggaggg gagctactca gg 332

<210> 772  
 <211> 194  
 <212> DNA  
 <213> Homo sapiens

<400> 772  
 aaaagaaaga tcaattatat ccatgcttaa caggatcagc aggagcttta taaatgactt 60  
 tacagagact aataagggat ttgatctttc tttttttgtt atcgaggctt ttgaaatgtg 120  
 gaacttgtgt gttctgcttt atatgttata ttcaatatct tttcagatgc agtctatatt 180  
 ttatgctgag tttt 194

<210> 773  
 <211> 272  
 <212> DNA  
 <213> Homo sapiens

<400> 773  
 ccaattgatt tgatggtaag ggagggatcg ttgacctcgt ctgttatgta aaggatgcgt 60  
 agggatggga gggcgatgag gactaggatg atggcgggca ggatagttca gacggtttct 120  
 atttcctgag cgtctgagat gttagtatta gttagttttg ttgtgagtgt taggaaaagg 180  
 gcatacagga ctaggaagca gataaggaaa atgattatga gggcgtgatc atgaaagggtg 240  
 ataagctctt ctatgatagg ggaagtagcg tc 272

<210> 774  
 <211> 314  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 18, 42, 45, 94, 95, 114, 117, 125, 143, 154, 198, 207, 222,  
 245, 258, 287  
 <223> n = A,T,C or G

<400> 774

```

gtgtcttgta cagttagnta tattagcagc cctctgagat gncgnatcta tcggaaggat 60
ttcaaacacc aattgcttta cctgaacaaa tggnncttac cctttgaaca gcanagnagac 120
cacgnagaag gaaggaaaag ggnaaaatcg ctttagttaa actgaaatta aatgaacaat 180
aaggcaacta tataagtnac ttctagnagc attgcctgag anacaaatta ttgtttgata 240
atttncattg tgaatagnaa tccaatagat catattgctt actttgntct ttttatacta 300
tagaataata tttt                                     314

```

```

<210> 775
<211> 207
<212> DNA
<213> Homo sapiens

```

```

<400> 775
cctgacagag ctcagctcac actgggaagt gtggatgcag ggtgcccttc cctaccccag 60
tgagaaggaa gattccttac ccattcttgc tcccccccag ggaagatcat catgcacgac 120
ccatttgcca tgcggccctt ttttggttac aacttcgggc actacctgga acactggctg 180
agcatggaag ggcgcaaggg ggcccag                                     207

```

```

<210> 776
<211> 196
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 37, 65, 100, 128, 139, 140
<223> n = A,T,C or G

```

```

<400> 776
gtgaacggag gcactgtggc cgagaagctg gactgggnccc gcgagaggct tgagcagcag 60
gtacntgtga accaagtgtt tgggcaggat gagatgatcn acgtcatcgg ggtgaccaag 120
ggcaaagnct acaaagggnn caccagtcgt tggcacacca agaagctgcc ccgcaagacc 180
caccgaggac ctcggc                                     196

```

```

<210> 777
<211> 325
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 55, 218, 239
<223> n = A,T,C or G

```

```

<400> 777
aaagttgaac taagattcta tcttggacaa ccagctatca ccaggctcgg taggnttgct 60
gcctctacct ataaatcttc ccactatatt gctacataga cgggtgtgct cttttagctg 120
ttcttaggta gctcgtctgg tttcgggggt cttagctttg gctctccttg caaagttatt 180
tctagttaat tcattatgca gaaggatatag gggttagncc ttgctatatt atgcttggnt 240
ataatttttc atctttccct tgcggtacta tatctattgc gccaggtttc aatttctatc 300
gcctatactt tatattgggta aatgg                                     325

```

```

<210> 778
<211> 421

```

<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 147, 191, 228, 231, 233, 280, 366, 384  
<223> n = A,T,C or G

<400> 778  
ccaaaagaag taagacagct tgctgaagat ttcttgaag actatattca tataaacatt 60  
ggtgcacttg aactgagtgc aaaccacaac attcttcaga ttgtggatgt gtgtcatgac 120  
gtagaaaagg atgaaaaact tattcgncta atggaagaga tcatgagtga gaaggagaat 180  
aaaaccattg nttttgtgga aacaaaaaga agatgtgatg agcttacnca nanaaatgag 240  
gagagatggg tggcctgccca tgggtatcca tggtgacaan agtcaacaag agcgtgactg 300  
ggttctaaat gaattcaaac atggaaaagc tcctattctg attgctacag atgtggcctc 360  
cagangncta gatgtggaag atngaaatt tgtcatcaat tatgactacc ctaactcctc 420  
a 421

<210> 779  
<211> 330  
<212> DNA  
<213> Homo sapiens

<400> 779  
ctgaactttc cgcttacgct gccagagct gccaggtgta gactgagaat tcgagttttg 60  
tttcttcctt ggggttgtat ctgcagcctt ttctccctgg gactccctgt ctgctgccaa 120  
tggagttgaa gaactggaat gatgacacag ctctcttctt cttattttct ttgctggcct 180  
ctccggtgtc tgggagcggg aggaggcttg ggctagagaa gggatgatgaa ctggggccat 240  
ttctcttcca gagctgtgag atgcctcgag tggagctgta ggaactggta atggcattgc 300  
ggctggagct agggatgccca cttgcgtaag 330

<210> 780  
<211> 279  
<212> DNA  
<213> Homo sapiens

<400> 780  
gagaggtaga gtttttttctg tgatagtggc tcaactggata agtggcgcttg gcttgccatg 60  
attgtgaggg gtaggagtca ggtagttagt attaggaggg ggggtgttag ggggtcggag 120  
gaaaagggtt gggaacagct aaatagggtt ttgttgattt ggtaaaaaa tagtagaggg 180  
atgatgctaa taattaggct gtgggtgggt gtgttgattc aaattatgtg ttttttggaa 240  
agtcattgtc gtggtagtaa tataattgtt gggacgatt 279

<210> 781  
<211> 323  
<212> DNA  
<213> Homo sapiens

<400> 781  
ttgatcttct gcaggaaggc gcagcttttc catatcagct caaccacgcc gccagtccat 60  
tcttaaggaa ctgccgacta ggactgatga tgcatttttag ctttgagctt ttgggggtta 120  
ttctaccaac aaacagtcca ttggaaagaa aacagtcctt ggaattaaca gattagaatg 180  
ttcacactgg ttaattcttt ttttaacaatg agcatgaagg tagcagaagc tgggtgtgtt 240  
ccagatgggt cttctaacca aactaatttt tcaactgtga caagcgaggc aagggttgca 300

ctggaccaaa ggctgaggct tgg

323

<210> 782

<211> 264

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 47, 69, 195, 262

<223> n = A,T,C or G

<400> 782

```
ttctagcttt gccctcactc cccggaaaaa ctgacactga cacaggngct ctttccttgc 60
ccctttagnt ggtacctcag tggggagggt tccctaccaa gaatgagttc ctgaaaccca 120
gggccagaga caaggacaac ttaggggaag acggggtttt cgggtggagcc aggggcaaat 180
cttaatggga ccagnggggg ataccccaga gcccatggcc tgactgcaca gcctgcctgg 240
aggatgggtg cgcagttctg cnct 264
```

<210> 783

<211> 159

<212> DNA

<213> Homo sapiens

<400> 783

```
ctgtgtgaag gcgacagtgg tgcaggtctt cctgtggact agacgtccca gtcttgccct 60
tcccttgata atgcagtaag ggacccccat ttacgacac agggcaggca agaagacaac 120
cagctcgatg ggatccacgt cgtgtgcaat caccaccag 159
```

<210> 784

<211> 128

<212> DNA

<213> Homo sapiens

<400> 784

```
ctcggccctc ttacaccatt ttgtttgatt gtctagtccc tgtttctttt tcttttcta 60
cctattcat ttaagcaaaa ccatacatta tcttttccag tcctttcttg tattcttact 120
gttttttt 128
```

<210> 785

<211> 346

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 142, 323, 325, 330

<223> n = A,T,C or G

<400> 785

```
ctgggctgat gctggaactc gtagaagtac acaggggccc gggaacactg aaaatgtgct 60
acttgagtg cagggatcac aaacatggag tccgccatca tctcctggaa ctgcgcttgg 120
agggctctgg gatccccatt gnccccatt tactcctccc tcagcaggtc accaaatgta 180
ggaggcaaca tcagcagcgt taacattttc tgcagagcag cctgggaggc ctctctgtcc 240
```



atttccttct gggatcata gatcctcatg accttgggga tgagccagcc gaattcattg 300  
 ttgttgacac caacaatgct agnagnacagn ctgaaagtcg gcagag 346

<210> 786  
 <211> 118  
 <212> DNA  
 <213> Homo sapiens

<400> 786  
 ctgcactgat ctgtggggag agttttacag acttttcatt ccagcctcct ccattgacag 60  
 tgaggctcttc attcaatcct gaagaaacct gaagtgtaga atctcctttt ccagattt 118

<210> 787  
 <211> 257  
 <212> DNA  
 <213> Homo sapiens

<400> 787  
 cactcattca tcgacctccc caccatcc aacatctccg catgatgaaa cttcggtc 60  
 ctcttggcg cctgcctgat cctccaaatc accacaggac tattcctagc catgcactac 120  
 tcaccagacg cctcaaccgc cttttcatca atcgcccaca tcaactcgaga cgtaaattat 180  
 ggctgaatca tccgtacct tcacgccaat ggcgcctcaa tattctttat ctgcctcttc 240  
 ctacacatcg ggcgagg 257

<210> 788  
 <211> 155  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 15, 22, 34, 38, 45, 69, 73, 127  
 <223> n = A,T,C or G

<400> 788  
 cgcaagagcc tatgnatgtg gnateccagaa ctcngtgngc gcaanccgca gagaccag 60  
 caccctggnt gtnccttatg ggccggacac ccccatcatt tccccccag actcgtctta 120  
 cctttcngga gcgaacctca acctctcctg ccact 155

<210> 789  
 <211> 382  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 203, 225  
 <223> n = A,T,C or G

<400> 789  
 cctaagtaaa tgaagagctg taccatattc atgtattgga agacaacatt gtaaagatga 60  
 catggtttac cagattaatc tataaattca atacaaatcc aatcaaaatt tcaatgctct 120  
 tgggtttgtt tgatttataa attgttggtc taattctaga agtaatatgg aggaacagtt 180  
 ggctaagaat agccaagaca ctncaggaa gaacaatttt gtggngatac tggagacaga 240



<210> 793  
 <211> 328  
 <212> DNA  
 <213> Homo sapiens

<400> 793  
 aaacaagtca tttttcttga tcgttgtgga aggtttggag ccttagaggt atgtcagaaa 60  
 aaatatgttg gtattctccc ttgggtaggg ggaaatgacc tttttacaag agagtgaat 120  
 ttaggtcagg gaaaagacca agggccagca ttgctacttt tgtgtgtgtg tgtgggtttt 180  
 gttttgtttt tttggttggc cggttgtttt cgttgttgtt aacaaaggaa tgagaatatg 240  
 taataacttaa ataaacatga ccacgaagaa tgctgttctg atttactaga gaatgttccc 300  
 aatttgaatt tagggtgatt ttacctgc 328

<210> 794  
 <211> 290  
 <212> DNA  
 <213> Homo sapiens

<400> 794  
 ccagcgagca catgaagcgg ttcttcatga actttgtggt tgggcaggat ccgggctcag 60  
 acgcgcctt ccacttcaat ccgcggtttg acggctggga caaggtgggtc ttcaacacgt 120  
 tgcaggggcg gaagtggggc agcgaggaga ggaagaggag catgcccttc aaaaagggtg 180  
 ccgcctttga gctggtcttc atagtcctgg ctgagcacta caaggtgggtg gtaaattggaa 240  
 atcccttcta tgagtacggg caccggcttc ccctacagat ggtcacccac 290

<210> 795  
 <211> 343  
 <212> DNA  
 <213> Homo sapiens

<400> 795  
 aaaatcaaag aaatccttgt tttgaaaatt ggatcttaat ctcaaaattg tagaacttgg 60  
 ctgagaccat tgctttcatt ttgaaaatga acttcaactc cagaaagacc agtgtgtgct 120  
 ctgccaaata aatttctgag tcacagtctc actaggaatg tgcaaatcaa agcatatgtt 180  
 ggtgtaaaatt cttttgaagt ccttgccaag ataataatg gcatttacat ttgctttttt 240  
 ctttaataaaa aattccacca ttttcacttt tcttcgactc acagcaagta acagtggctg 300  
 atattcattc ttgctgcatt cttcaatatt tgtaccatgt gaa 343

<210> 796  
 <211> 354  
 <212> DNA  
 <213> Homo sapiens

<400> 796  
 tggcgggccc ctgaataagc ttccaaaatg atgccacac cagttattct attgaaagag 60  
 gggactgata gctcccaagg catccccag cttgtgagta acatcagtgct ctgccagggtg 120  
 attgctgagg ctgtaagaac taccctgggt ccccgtagga tggacaagct tattgtagat 180  
 ggcagaggca aagcaacaat ttctaataatg ggggccacaa ttctgaaact tcttgatgtt 240  
 gtccatcctg cagcaaagac tttggtagac attgccaat cccaagatgc tgaggtgggt 300  
 gatggcacca cctcagtgac cttgctgggt gcagagtttc tgaagcagac ctgc 354

<210> 797  
 <211> 309

<212> DNA  
<213> Homo sapiens

<400> 797  
ctgtgccgctc tgcctgagcc catggatgct ttctcaatcc taggctgggt actgtgtaag 60  
cgtttttgag tacggggcct tgagcgggtg ggagctgtgt gttgaagtac agagggaggt 120  
tgggggtgggt cagagccgag ttaagagatt ttctttgttg ctggaccctt tcttgaaggt 180  
agacgtcccc caccgggaga gacgtcgcg tgtggcctga agtggcgcaa gcttgctttg 240  
taaatatctg tggccccgat gtagtgccca gaacgtttgt gcgaggcagc tctgcgcccg 300  
ggttccagc 309

<210> 798  
<211> 315  
<212> DNA  
<213> Homo sapiens

<400> 798  
ccaccagcat tgacgttctt gccatccaga agagctgaca gtgtcagttt aatacctggc 60  
tttagagtct gagtgtatcc taaacctatc aggctggagt tggtcacttt agccgagaag 120  
caggcgtcag ggtcaatctg atacttggct gctattccga agcgcgtgtt actgtttcct 180  
gctgtccagg caagattgac agcgggtctcc aacttcttgt tcactttctg gtaaattggag 240  
ccgcaaaact ctgtcccgtc attcacatta gtgtgaagct ggaattcatc agtcttgtag 300  
ccaactgcaa agttg 315

<210> 799  
<211> 157  
<212> DNA  
<213> Homo sapiens

<400> 799  
ctgtgatttc ctccatagtt ggcttctggg tcaggccata ggcaatattt tcttgaagac 60  
ttcttccaaa tacctgtggc tcttgtccca ctgcagccac ctgcctgtgc aggtagcggg 120  
gctcatattg gggaaggggc ttcccatcca acagcag 157

<210> 800  
<211> 357  
<212> DNA  
<213> Homo sapiens

<400> 800  
aaactcagtg aacccaaacc ttttttttcc aatctgaata ttgctgcagc aaaaccaact 60  
ccaccaaaaa gccgggtaac attaacaaaa gaattccctg tatcatctgg atctcaacat 120  
cggaaaaaag aagcggatag tgtttatgga gaatgggttc ctgtcgagaa aaatggtgaa 180  
gaaaacaaag atgatgataa tgttttcagc agcaatttgc cctcagagcc tgtggacatc 240  
tctacagcaa tgagtgaacg ggcacttgct cagaaaagac tcagtgaagaa tgcatttgat 300  
cttgaagcca tgagcatggt aaatagagct caggaaagga ttgatgcctg ggctcag 357

<210> 801  
<211> 359  
<212> DNA  
<213> Homo sapiens

<400> 801  
cctagggggc atatcaaggg tttaatagac tgggggaatg ggcaacagaa ctggctacct 60



tggtctgcaa ccacttgagc ttctctcaact ccttcaagat gaagatgtcc gtcacccctgg 180  
gcgtcgtgca catggccctt ggggtggtcc tcggagtctt caaccacgtg cacttttg 238

<210> 806  
<211> 325  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 129, 141, 291  
<223> n = A,T,C or G

<400> 806  
cctgaggtct gcggaaggtg ggaggaggca gacgccctgc gtggcccatg gtcggggcgt 60  
ccacgccgag gccggcaaca aacgacagta tctcgattc cttttttttt taatttttta 120  
tactttggng ttctacttcg ngctctgaat actgaataac catgaatgac tgaatagttt 180  
agtccagatt ttacagagg atacatctat ttttatcatt atttggggtt tgaaaaattt 240  
ttttttacac cttctaattt ctttatttct caaagcagat aattcttctg ngtgaaaatg 300  
ttttcttttt ttaatttaag gttta 325

<210> 807  
<211> 289  
<212> DNA  
<213> Homo sapiens

<400> 807  
cctaaaggga actgtcttct gtcgagaagt aaaggaaact tcatgaagga tgtagaagct 60  
tagctgcctc agagaagaga gaacctgaag atctgaggca agctggacag gagaggtaga 120  
tatttggtga tggaagaatt caagtttata atcaattccc acttagcacc tactgtgtgc 180  
taggaacttg aatgtgtatg ttgacaagt cctgcttggc ctgatgggtg ggagaaggaa 240  
cctgagcctg gctgagatgg ctaggcggag ggctttgaag tccaagcag 289

<210> 808  
<211> 376  
<212> DNA  
<213> Homo sapiens

<400> 808  
aaacttaatt aaagagcttg acaagctctg catattcatg tgtcataagc agtatgtgac 60  
aaaaaaaaact gtgcagtatg taccctctca cgaaatttag tttggcaggg aaaacaagat 120  
gcacatgtta ttataaatta gaaaatggaa gagaagtaga aataaatcca tgagtattat 180  
atataagtaa cagaacaaaa acaacaggat aatgtatccc ccccaaaggc ccagtagaga 240  
ccatcaaagc tcattctggg ggtagtcaag gagggagtgg agggagaaaa agaacgcaga 300  
ccttcaacca ctaatgaaag aactgaaaca tctgtatgta gaaaaaagggt aaaatcaact 360  
cactatcatc ttcagc 376

<210> 809  
<211> 243  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature

<222> 19, 162, 174, 175, 182, 193, 198

<223> n = A,T,C or G

<400> 809

```
ccatctcatt ttcaaagtn c agagctacat aacacagttt ctcccttgatg tcccggacaa 60
tctcacgctc agcagtagta acgaaggaat agccacgctc agtcaggatc ttcattgaggt 120
agtcagtgag atctcggcca gccagatcca gacgcatgat gncatggggc aagnnatagc 180
cntcatagat ggngacantg tgggtgacac catctccaga gtccagcacg atgccagttg 240
tgc 243
```

<210> 810

<211> 274

<212> DNA

<213> Homo sapiens

<400> 810

```
aaaaaacacg tttgttatta ccaaaaagag acgtctttag gtaaaaataa taaaaacccc 60
atgctgcatt gataatgcag atagtctctat ttatctggtc aacgggcaaa aagcaagcac 120
tttaggtctt cagctccaat cttttgttca tttcttattg ctggaatttc atatttcttc 180
ttgttgatg actaaaccgg atgatggtag agatggtaag ccggcattta ctcagccccg 240
cctgctcag cctcgggagc ggacgaattc tcag 274
```

<210> 811

<211> 205

<212> DNA

<213> Homo sapiens

<400> 811

```
ctggtggaga tcatcaaggt gctgggaaca ccaaccggg aacaaatccg agagatgaac 60
cccaactaca cggagttcaa gttccctcag attaaagctc acccctggac aaagggtgttc 120
aaatctcgaa cgcgcgcaga ggccatcgcg ctctgctcta gcctgctgga gtacacccca 180
tcctcaaggc tctccccact agagg 205
```

<210> 812

<211> 199

<212> DNA

<213> Homo sapiens

<400> 812

```
aaatattgct gctgctttgt agatgatgag aagaaatggt aaagtgcttt ctaaaaggaa 60
attttttcac ctttgaggga gaatatatta gagttgtggg taatttttca cagccaccta 120
tgtacatact aattacccat tggatactta tatctaaaag tctcatgctg aagtatagtt 180
tttgggaaag aatgatttt 199
```

<210> 813

<211> 334

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 40

<223> n = A,T,C or G

<400> 813  
 cctcaccgcc gatgcaagga tagtcatcaa cagggcccg gtggagtgcc agagccaccg 60  
 gctgactgtg gaggaccgg tcaactgtgga gtacatcacc cgctacatcg ccagtctgaa 120  
 gcagcgttat acgcagagca atgggcgcag gccgtttggc atctctgccc tcatcggtgg 180  
 tttcgacttt gatggcactc ctaggctcta tcagactgac ccctcgggca cataccatgc 240  
 ctggaaggcc aatgccatag gccgggggtgc caagtcagtg cgtgagttcc tggagaagaa 300  
 ctatactgac gaagccattg ctctgcgacc tgcc 334

<210> 814  
 <211> 358  
 <212> DNA  
 <213> Homo sapiens

<400> 814  
 ctgaagcttg gaacttcttg acaagaaaag gcctggtttc tgggtggcctc tatgaatccc 60  
 atgtagggtg cagaccgtac tccatccctc cctgtgagca ccacgtcaac ggctcccggc 120  
 ccccatgcac gggggaggga gataccccc aagtgtagcaa gatctgtgag cctggctaca 180  
 gcccgaccta caaacaggac aagcactacg gatacaattc ctacagcgtc tccaatagcg 240  
 agaaggacat catggccgag atctacaaaa acggccccgt ggaggagct ttctctgtgt 300  
 attcggaactt cctgctctac aagtcaggag tgtaccaaca cgtcaccgga gagatgat 358

<210> 815  
 <211> 203  
 <212> DNA  
 <213> Homo sapiens

<400> 815  
 ctggaagccg gactcagcca ggggtgcgcta ctaccagagc ctgcaggctc atctcaaggt 60  
 ggacgtgtac agacgtctcc acaagcctct gcccaaggg accatgatgg agacgtctgc 120  
 ccggtacaag ttctacctgg cttctgagaa ctccctgcac cccgactaca tcaccgagaa 180  
 gctgtggagg aacgccctgg agg 203

<210> 816  
 <211> 92  
 <212> DNA  
 <213> Homo sapiens

<400> 816  
 cggccgcaga agcgagatga cgaagggaac gtcacgttt ggaaagcgtc gcaataagac 60  
 gcacacgttg tgccgcccgt gtggtctctaa gg 92

<210> 817  
 <211> 367  
 <212> DNA  
 <213> Homo sapiens

<400> 817  
 ttggaggact atttgaattt tgcaaaactat ctcttgtggg tttttacacc actaatactt 60  
 ttaatacttc cttactttac tatctttctt ctctacctta ctattatattt cttacacatt 120  
 tataagagaa agaattgtatt gaaagaagcc tactctcata atttatggga tgggtgcaagg 180  
 aaaacagtgg caactctgtg ggatggacat gcagccgttt ggcattggtta tgaagtcat 240  
 ggaatggaaa aaataccaga agatggacca gcacttataa ttttttatca tggagctatt 300  
 cctatagatt tttactatct catggctaaa atatttatac acaaaggcag aacttgccga 360  
 gtagtag 367



<210> 818  
 <211> 381  
 <212> DNA  
 <213> Homo sapiens

<400> 818  
 aaataaaaagt attacgtaac tttgaaattt gtataaaaatt aaaagatagt aaaaacaact 60  
 attctaacag aattcaaaac ctgttatgct tcagtggaga gattattcaa gataagtccg 120  
 tgggaaattg ggagtacatt tctactggca aagttagtga taactatgca cttctgacaa 180  
 aatgtgaaat ggggggtatg ggcgtgtcat atcatcatgg tgcagatacg tggatgtgtg 240  
 cttccaaaca atggcaacct aactgactgc tggaaccata caaaatacct gaaactactc 300  
 agaaagaagg tgaaaattgc atgcaaaaat tatttgaaaa atattgagct aacacaacat 360  
 gaatttgga ttataagtga g 381

<210> 819  
 <211> 109  
 <212> DNA  
 <213> Homo sapiens

<400> 819  
 ccattggccgc ttccagacca tggaggagaa gaaagcattc atgggaccac tgaagaaaga 60  
 ccgaattgca aaggaagaag gagcttaatg ccaggaacag attttgcag 109

<210> 820  
 <211> 309  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 110, 134, 164, 185, 235, 291, 304  
 <223> n = A,T,C or G

<400> 820  
 ctggaaaaac ctttcagcga accatttcag ctccaggacac gtttagcgtat gccacagctt 60  
 tgttgaatga aaaagagcaa tcaggaagca gtaatgggtc ggagagtagn cctgccaatg 120  
 agaacggaga cagncatcta cagcagggtt cagaatctcc catnatgatt ggtgagttga 180  
 gaagngacct tgatgatgtt gatccctaga ggaacatgcc cagcctgaga ggagncaaga 240  
 cacaatactg gatgctcagc accttctttg gaatcagaat ctccaaccct ntggaagagc 300  
 ctgnagatt 309

<210> 821  
 <211> 236  
 <212> DNA  
 <213> Homo sapiens

<400> 821  
 catccgcttc ctgaatgotg agaatgcaca gaaattcaaa acaaagtgtg aagaatgcag 60  
 gaaagagatc gaagagagag aaaagaaagc aggatcaggc aaaaatgatc atgccgaaaa 120  
 agtggcggaa aagctagaag ctctctcggt gaaggaggag accaaggagg atgctgagga 180  
 gaagcaataa atcgtcttat tttatcttct tttcctctct ttcctttcct tttttt 236

<210> 822

<211> 388  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 117, 360  
 <223> n = A,T,C or G

<400> 822  
 gcgaggcaag atggagttag tgcaggtcct gaaacgcggg ctgcagcaga tcaccggcca 60  
 cggcgggtctc cgaggctatc tacgggtttt tttcaggaca aatgatgcga aggttgntac 120  
 attagtgggg gaagacaaat atggaaacaa atactatgaa gacaacaagc aattttttgg 180  
 ccgtcacoga tgggttgtat atactactga aatgaatggc aaaaacacat tctgggatgt 240  
 ggatggaagc atgggtgcctc ctgaatggca tcgttggctt cacagtatga ctgatgatcc 300  
 tccaacaaca aaaccactta ctgctcgtaa attcatttgg acgaaccata aattcaacgn 360  
 gactggcacc ccagaacaat atgtacct 388

<210> 823  
 <211> 353  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 177, 297  
 <223> n = A,T,C or G

<400> 823  
 aaaagtttgg atctttttct cagcaggtat cagttgtaaa taatgaatta ggggccaaaa 60  
 tgcaaaacga aaaatgaagc agctacatgt agttagtaat ttctagtgtg aactgtaatt 120  
 gaatatgttg gtttcatatg tattatttta tattgtactt ttttcattat tgatggnttg 180  
 gactttaata agagaaattc catagttttt aatatccag aagtgagaca atttgaacag 240  
 tgtattctag aaaacaatac actaactgaa cagaagtga tgcttatata tattatnata 300  
 gccttaaac tttttcctct aatgccttaa ctgtcaaata attataacct ttt 353

<210> 824  
 <211> 264  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 186, 223, 226, 249  
 <223> n = A,T,C or G

<400> 824  
 ctgggtgcag gcgggctgag tccgaaaaga gagtcagcaa agggagatgg ggtggggccg 60  
 ttttatagga ttaggggaagg taatggaaaa ttacagtcaa aggggggttg ttctctggtg 120  
 ggcaggtgtg gatctcacia agtacactct caagggtggg gagaattaca aaggaccttc 180  
 ttaagngtgg gggagattac aaagtacatt tatcagttag ggnggngcag gaacaaatca 240  
 caatgttgna atgtcatcag ttaa 264

<210> 825

<211> 361  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 210  
 <223> n = A,T,C or G

<400> 825  
 aaaatccagt ttgttggttaa caaaacctac tgctgggtgg ttttgaatat attactttta 60  
 ggcatgatct cccaatgtg tttttactcc ttttccggct tctaggacag aggtatgtag 120  
 tcaaagaatc ctatgggtga tctgaattgg gtttcagcta ctgtacctgg tccttgtgaa 180  
 ttaaaaaaat aaagtcacaa aaaccatatn acaaaacaaa ttaaaataaa tagacaaaat 240  
 gaagctgtct ccagaccttc tgcattgaca cacaggtttg aagtcaacca aagcactcat 300  
 gctaattctgg atgggaacac tagggagaca gaaaccccag tatgaaacca tgtacttgag 360  
 c 361

<210> 826  
 <211> 195  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 10, 26, 32, 44, 162, 179  
 <223> n = A,T,C or G

<400> 826  
 cccagaagag gacgcagccc tctatnggcc cnaatcttct tcantcgctc caggtcttca 60  
 cggagcttgt tgtccagacc attggctagg acctggctgt attttccatc ctttacatoc 120  
 ttctgtctgt tcaagaacca gtctgggata ttgtactggc gnggattctg cataatggng 180  
 atcacacgtt ccacc 195

<210> 827  
 <211> 227  
 <212> DNA  
 <213> Homo sapiens

<400> 827  
 caacggctct tcacagacca cctccttttc taaggaaaat ggctggtatg acgtgatgag 60  
 tgatacatat tttgattcag gttttgtctc taaagtagca cttcttacca cagagatcaa 120  
 ggacttgggt aatattatgc ttttttcctt caatggatta attttcttaa tataaaaaa 180  
 gatgaatacc aggctaagca ctagaaagag tagtaaagca gcaacaa 227

<210> 828  
 <211> 242  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 65, 214, 222  
 <223> n = A,T,C or G

<400> 828  
 atgtccgggg agtcagccag gagcttgggg aagggagcg cgccccggg gccggtcccg 60  
 gaggntcgat ccgcatctac agcatgaggt tctgcccgtt tgctgagagg acgcgtctag 120  
 tcctgaaggc caaggggaatc aggcataag tcatcaatat caacctgaaa aataagcctg 180  
 agtggttctt taagaaaaat ccctttggtc tggngccagt tntggaaaac agtcagggtc 240  
 ag 242

<210> 829  
 <211> 374  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 339  
 <223> n = A,T,C or G

<400> 829  
 gaggtcctga aaaggaatac acttccatat catgccatct cttacactgg cattccttgc 60  
 ctatgcatgt gcatggcttg ccctggttta gcttgaaaac tgattgaaag tcagagagat 120  
 cactggcttt gagacttgct tgggggactt gggtagcgct agaggagtct tccttcttac 180  
 tctctgatgg gagccttgga acagaagttc tcaaaggctc aacgactgcc cctgcgtgat 240  
 tagcatcgag agaagtagag ctttctcctg cactgaactc tttaggggat gaaattccca 300  
 gccactgct gccatcagggt gagtcagttc ggcttttng cttgagttga ctgctggaag 360  
 aagacgctat tgta 374

<210> 830  
 <211> 325  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 239, 313  
 <223> n = A,T,C or G

<400> 830  
 gttcaaagca gaaaatcctg agcctctagt gtttggtgtg aagtacaatg caagttcttt 60  
 tgccaagttc acgcttattg tgacagatgt gaatgaagca cctcaattct cccaacacgt 120  
 attccaagcg aaagtcagtg aggatgtagc tataggcact aaagtgggca atgtgactgc 180  
 caaggatcca gaaggtctgg acataagtta ttcactgagg ggagacacaa gaggttggt 240  
 taaaattgac cacgtgactg gtgagatctt tagtgtggct ccattggaca gagaagccgg 300  
 aagtccatat cgngtacaag tgggtg 325

<210> 831  
 <211> 85  
 <212> DNA  
 <213> Homo sapiens

<400> 831  
 tggtaaccggg cccccccct gagcgatgga gcgtgggtag ggagggtcca cagtgtccac 60  
 tcgccgtgtg cgaaggttga ctg 85



```

tgatgtgggc gattgatgaa aaggcgggtt aggcgtctgg tgagtagtgc atggctagga 60
atagtcctgt ggtgatttgg aggatcangc aggcgccaag gagtgagccg aagtttcatc 120
atgcggagat gttggatggg gtggggaggt cgatgaatga gtggttaatt aattttatta 180
gggggttaat tttgcggtcg acgcggccgc                                     210

```

```

<210> 836
<211> 426
<212> DNA
<213> Homo sapiens

```

```

<400> 836
cgcccgccac gctggttttg catcttcagg agacgctcgt agccctcgcg cttctcctcg 60
gccaattcgc ggaagaagtg gctcacgcct tccagagcca catcatcgcg gtcgaaatag 120
aagcccagag agaggtaggt gtaggaggcc tgcaggtaga aattgaccag gctggtgacg 180
gctgcctcca cgtcgggtga ataattctga cgaatctggg agctcatggg tggttggcaa 240
gaaggagcta accacaaaaa cggtgctggc aggtcccaga agcaggagat ggccgagaag 300
atggtcccgg aggttgcaag cggagaggaa atcggagggc ggtcggaggc tggaagagag 360
tccccggatc tgttccgtcc aaacactgtt gaagcaagag acagacccgc ggtcgacgcg 420
gccgcg                                           426

```

```

<210> 837
<211> 134
<212> DNA
<213> Homo sapiens

```

```

<400> 837
ccagggccgt gggccgaccc cggcggggcc gatccgaggg cctcactaaa ccatccaatc 60
ggtagtagcg acgggcgggtg tgtacaaagg gcagggactt aatcaacgca agcttatgac 120
ccgcacttac tggg                                           134

```

```

<210> 838
<211> 538
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 480
<223> n = A,T,C or G

```

```

<400> 838
ggcgtcctgg tgcttaccac ctggaaactg gtgaggtggt gggagaactc ctggtggacc 60
ctagtggaaag ccttccagta atttcttgaa gctgagcgct caggtgagta gggcgacatc 120
tggtggcccg ttgttgaagg tcattgcaga gaggaaggaa gccgaggagg ggagcctgca 180
gtgagggcgt cctgggggtc tccggttctc accacccttg ggccacgcg tctagtccac 240
acctgaggag ttggtcagggt agaaggggcg gatgaccgtg cggaagccgt tgaagtggcc 300
tgccgggcag gggaaggagg aggtgctctt cgagctgttg gtgtccaggg cactgggaat 360
cgcagccttc cagccctoga aatcggtgac gtctgccacg aagagccctt cgcagagcat 420
cagggctttg ttttcgtagg caatggtgcg atctgagccg ccagacttgg tgaggcccan 480
gacagggagc tcgtccgagg agcaggagaa gccgtagtct cagcagctct ggatggtg 538

```

```

<210> 839
<211> 351
<212> DNA

```

<213> Homo sapiens

<400> 839

```
aaggcggcaa cgggtggtgaa agatatagca ggcttgggtc ttgtacagcg gatgctcgtg 60
aagagggggc gagcggtaga accttgggtc cttgtagccg cggccccagg gcggaaagat 120
cgcccgcgcc agccagggca cgaagtgcac cttccccgca aaggtgatgg gctccagtcc 180
agggatctcg taccacctat ccaggggagg aggtcccgac ttcccgctgg agcgacgccc 240
ccactcatac gccccgcgtc tcggggcccc gaagccccca aggccgagct gcccggagcc 300
agctagcgcc cgccttgccg gcccggacgc caatgccata ccgatctgat a 351
```

<210> 840

<211> 574

<212> DNA

<213> Homo sapiens

<400> 840

```
tggcctgcaa ggccgaggac agggcgagca ccgagtcgta cattttgcag ctcacatcc 60
ccgtgctctg cgtgacgcag tccatccaca gcccttgta catggcctgg gccgtgatga 120
tggtgtcacc cgcataggag ctcacatgcc actgcgggat ggcggtgcag gccaccagac 180
ccaccagacc cagcagggcc atggagaagc ccagcaactg caggcccgaa ttggccattt 240
ccgccctcag aaaacactgg gggcgccggg cgggagacc tacagtataa caaacgacac 300
ttggggggca gcccacaaa agaaaacttg aggtggagtt ttccggtcac ccaaagagac 360
aaaaagggtt tgggcccagg gaatgcaaat cttgtcacca aactacacac aaatcgaccc 420
ctccagtcaa gcgatggcct cgcggcacag ggagtaggat acgcccggag ggtgggtcca 480
gacaaaattg gtggtccccg aaggccaggc ggttccctcc ggcgctctcg gcgaccctag 540
gcaaacaaaa ggtggagggg ccgtctgggc gcgt 574
```

<210> 841

<211> 195

<212> DNA

<213> Homo sapiens

<400> 841

```
gaccagggg cacaggctcc cagatgatag cccctctctg aatgagcacc caggcaacac 60
agtccggggc tgtgtgtagc aaacctgtca gcagctgcct cctgggacaa ccacccctt 120
acatgctatc tatctaccag acaaatgaaa gctcttctta ccccatctcc caggcaccac 180
ccagcaaggg ctctg 195
```

<210> 842

<211> 207

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 85, 87, 89, 101, 127, 138, 139, 147, 149, 150, 191

<223> n = A,T,C or G

<400> 842

```
cgcccgccct tttttttttt ttttcgttga aaaccaataa tttatcaaaa cgctgcgtgt 60
gtatgtgggg gggaggggtg cacancnc agggcagcgg ngggcgacg cacaggcagg 120
aaacgnggcc cggaaagngg gggcggnann ttgccactgg ctggccatgc gggcgggcag 180
gctaaacatt nttgcgcgcg aggcgca 207
```

<210> 843  
 <211> 62  
 <212> DNA  
 <213> Homo sapiens

<400> 843  
 cgatggagcg tgggtaggga ggggtccacag tgtccactcg ccgtgtgcga aggttgactc 60  
 gg 62

<210> 844  
 <211> 118  
 <212> DNA  
 <213> Homo sapiens

<400> 844  
 ttgggtacac tccctggtac cgggcccccc cgatccggct gccagccctg aggccaagca 60  
 cggttgagga cccaagacct ggcttgccgt tgccctgagc tgcagcctcg gccccagg 118

<210> 845  
 <211> 99  
 <212> DNA  
 <213> Homo sapiens

<400> 845  
 gtacactccc ctggtaccgg gccccccac taccgagtca accttcgcac acggcgagtg 60  
 gacactgtgg accctcccta cccacgctcc atcgctcag 99

<210> 846  
 <211> 559  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 37, 552, 554  
 <223> n = A,T,C or G

<400> 846  
 cggccgccct tttttttttt ttttggttgt ggctganaat gctggagatg ctcagttctc 60  
 tccctcacaa ggtaggccac aaattcttgg tggcgccctc acatctgggg tcttcaggca 120  
 ccagccatgc ctgccgagga gtgctgtcag gacagaccat gtccgtgcta ggcccaggca 180  
 cagcccaacc actcctcatc caagtctctc ccaggtttct ggtcccgatg ggcaaggatg 240  
 accctccag tggctggtac cccaccatcc cactaccctt cacatgctct cactctccat 300  
 cagggtccca atcctggctt cctctttcac gaactctcaa agaaaaggaa ggataaaacc 360  
 taaataaacc agacagaagc agctctggaa caaaaagtac aaaaagacag ccagaggtgt 420  
 gcggagaggg tgaggtggcc gcgtggacgt gggtagataa tcgcatgcag cactggaact 480  
 cctgatgagg ggtgggggtcc ccacttctcc tcaaggtttg agggattggg gggagggggg 540  
 cagctgactc ananaagta 559

<210> 847  
 <211> 430  
 <212> DNA  
 <213> Homo sapiens



<400> 847  
 cgcccgccac gctgggttttg catcttcagg agacgctcgt agccctcgcg cttctcctcg 60  
 gccagttcgc ggaagaagtg gctcacgcct tccagagcca catcatcgcg gtcgaaatag 120  
 aagcccagag agaggttagt gtaggaggcc tgcaggtaca aattgaccag gctgttgacg 180  
 gctgcctcca cgtcgggtgga ataattctga cgaatctggg agctcatggg tggttggcaa 240  
 gaaggagcta accacaaaaa cgggtgctggc aggtcccaga agcaggagat ggccgagaag 300  
 atggtcccgagg aggttgcaag cggagaggaa atcggagggc ggtcggaggc tggaagagag 360  
 tccccggatc tgttcgcgtc aaacactgtt gaagcaagag acagacccgc gggacgtcga 420  
 cgccggccgcg 430

<210> 848  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 146, 162  
 <223> n = A,T,C or G

<400> 848  
 agagtaaagt gcagcctctc cagacactgg ggccccagtg ggcggtggcg aagttgctgg 60  
 taggaggagt tggcggaagc acttggaact cttttataag tgtcagctgt gagattttta 120  
 tttgatttga aaatgagtaa gtgcanaaag acaccagttc ancagctagc aagtcccgcg 180  
 tcattcagcc cagatattct tgctgacatt tttgaactct ttgccaagaa cttttcttat 240  
 ggcaagccac ttaataatga gtggcagtta ccagatccca gtgagatttt cacctgtgac 300  
 cacactgaat ttaatgcatt tcttgatttg aagaactccc taaatgaagt aaaaaaccta 360  
 ctgagtgata agaaactgga tgagtggcat gagcacactg ctttcactaa taaagcgggg 420  
 aaaatcattt ctcatgttag aaaatctgtg aatgctgaac tttgtactca agcatggtgt 480  
 aagttccatg agattttgtg cagctttcca cttattccac aggaagcttt tcagaatgga 540  
 aaactg 546

<210> 849  
 <211> 196  
 <212> DNA  
 <213> Homo sapiens

<400> 849  
 gaagtccttc agcaggccac gctcggacag ggtgcgcctc aaggacttct ttctgatgag 60  
 ggggaccttg tacatgatgc actcagagag cgccaccaga cccagcagca gcagccactt 120  
 catggttctt cccgggtccc aactcgaggg agaaggcgtc gacgcggccg cgaattccac 180  
 cacactggac tagtgg 196

<210> 850  
 <211> 543  
 <212> DNA  
 <213> Homo sapiens

<400> 850  
 cactgatatt ggagaaaagc acatccggca taaagtgtaa accagtgtct caaacactgg 60  
 aagaaccggg agagcaaaca tgatttttct tatttctctt aagtaatctt tcttttagtaa 120  
 aacaacaagt gatctttggc atagattcat actttaaagg cattaatatt gcatttatat 180  
 caggcaagca actatacaaa tatgctgagg gccttgaaaa taatcatcct catttttaaag 240  
 gaaatagtga aagcctgagt gtaaaggacc aacttaagtt gtacacattc gatgttgagg 300

```

actaacacac agcgatgggt gggaaggaag gatgttcagg caaggttctt actcctttac 360
tcattctggtt ctggcttttg gaaaaaataa ggtttcatgt gctgggaaat acttagcagt 420
aataagtacc aaaaaggaaa cactgccctc tcattttgcc tagtaggaac ttactgtggt 480
gataagaaat atgaaaccca ttactctctt gaaccccata cttgggagta gatgcagaga 540
gct 543

```

```

<210> 851
<211> 190
<212> DNA
<213> Homo sapiens

```

```

<400> 851
aggcggagag gatcatgtcc gggaactgcg gggtagtagc gatctgggtt acccagccgt 60
tgtggccctt gagggtgcca cgaagggtca tctgctcagt catggcggcg gcgagagcgt 120
gtgtcgctgc agcgacgagg atggcactgg atggcttaga gaaactagca ccacaacctc 180
tcctgccgcc 190

```

```

<210> 852
<211> 407
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 38
<223> n = A,T,C or G

```

```

<400> 852
aggcctcaca gaggcggggg cagaaggcgg cgacccanag ccgccacatc cccgccttg 60
ggcgccgtca cagtccccag acgccctgga ctctgcagt ctacgaagac gcgcggggga 120
cggcgtggtt ccgagagagg gcgccaaagg cgacgtgccg gccgccagct ccaggccgag 180
ccccgagcgc ctgcaggaac aggccccctc acccggcgcg ggacgcagag ctgcgagaga 240
atcttggttca gcgcggactc aacgccaggg cgccgcctag aggttggtct ctgtctcggc 300
ctcaccgccg gggagaccac agagctgctt cccagccgc ccgccgccag aaattggaaa 360
aaaaaaaatc cagctggggg ctaggaactc ggcttctggc acctctg 407

```

```

<210> 853
<211> 626
<212> DNA
<213> Homo sapiens

```

```

<400> 853
acagtcccag tactctttgc tcagctttcg gggccggcct cgtttccgct tcccgtgctt 60
gggatcccc ttcttgcaat caccgaaacc atcgctgggg aagagcttgc catcagtggg 120
atccaggctc acgtcacttc caccggagtc tgaggagtgg gagtccgag aagcaccagt 180
ccctgcggtg gagacgtcag agctgccggg ggagggggct cctgcgccac agctgccggg 240
gtggtagggg ctggcttgct gaccgtcgtc cagcagctcc tgggcaaagg ggctgccctg 300
gtcaaagggc cctgggtcta gggcctcctg gaaggccatg ccatccttct ccagcagctc 360
aatgatccaa ctgagctcat cagaagagct ggaagtggag tctcgagct gggcattggg 420
ttggtcccc agaggcccaa agaccagacg cagctcctca agggcacaat tgcagagggt 480
ggcgccatcc atgtcacatc gtgagaagtc aatggcgctt gcgtcgact tgttcttctc 540
cacttggtag ctgatccagt ccagaacctg cgtcttcgac cagaactggg gctgttcccc 600
caaccagctg gccttctctg taccct 626

```

<210> 854  
 <211> 218  
 <212> DNA  
 <213> Homo sapiens

<400> 854  
 atgacggctg cccgaagccc cccgagattg cacatggcta tgtggagcac tcggttcgct 60  
 accagtgtaa gaactactac aaactgcgca cagaaggaga tggagtatac accttaaatg 120  
 ataagaagca gtggataaat aaggctgttg gagataaact tcctgaatgt gaagcagtat 180  
 gtgggaagcc caagaatccg gcaaaccag tgcagcgg 218

<210> 855  
 <211> 50  
 <212> DNA  
 <213> Homo sapiens

<400> 855  
 gaggaacgaa gaataaagga gattgtgaag aaacattctc agtttattgg 50

<210> 856  
 <211> 116  
 <212> DNA  
 <213> Homo sapiens

<400> 856  
 tccactagtc cagtgtggtg gaattcgcgg ccgcgtcgac gccccgcgag cacagagcct 60  
 cgcctttgcc gatccgccgc ccgtccacac ccgccgccag ctcaccatgg atgatg 116

<210> 857  
 <211> 402  
 <212> DNA  
 <213> Homo sapiens

<400> 857  
 ggcgacgacc ccaagagggg ggtggggccac gatttctact tcttttttca ccattcgaca 60  
 gttccactct tacacggcag ccacatagtg ttcttccatc tagctctcgg actgcatcag 120  
 ctgcatctcg gggatcttca aattcaacaa aagcaaagcc ggggtgggtt ctagcaaccc 180  
 acacacttcg gagtgggtcca tagtagccaa aagcccgttc caattccgtc ttgttgccat 240  
 tgtttccaag attgcctaca taaaccttac agtccaatgg acaggaatca cgatgcattt 300  
 cgagatctag ggttaaaaaa tgcggcggct caaatccaca cgctccgatg agtcttcccc 360  
 ctttcctccg gccaacacc aaccaacgtc gacgcggccg cg 402

<210> 858  
 <211> 172  
 <212> DNA  
 <213> Homo sapiens

<400> 858  
 acattttatg acctotccca ataggggcag aggtgagcac ccctggtgaa aagttaagac 60  
 tcagtgtgta taaatacgcc aagaagagct gtggcttctt tcaactggtg cctcagaaag 120  
 gctgtgagca gtgttggtgg catacctgtc acagcatcta gcaaagcacc tg 172

<210> 859  
 <211> 196

<212> DNA  
<213> Homo sapiens

<400> 859  
aggcggagag gatcatgtcc gggaactgcg gggtagtagc gatctggggtt acccagccgt 60  
tgtggccctt gaggggtgcca cgaaggggtca tctgctcagt catggcggcg gcgagagcgt 120  
gtgtcgctgc agcgacgagg atggcactgg atggcttaga gaaactagca ccacaacctc 180  
tctgcccgcg ggtcga 196

<210> 860  
<211> 538  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 480  
<223> n = A,T,C or G

<400> 860  
ggcgtcctgg tgcttaccac ctggaaactg gtgaggtggt gggagaactc ctggtggacc 60  
ctagtgggaag ccttccagta atttcttgaa gctgagcgct caggtgagta gggcgacatc 120  
tggtggccgg ttgttggaagg tcattgcaga gaggaaggaa gccgaggagg ggagcctgca 180  
gtgaggggcgt cctgggggttc tccggttctc accacccttg ggccacgccg tctagtccac 240  
acctgaggag ttggtcaggt agaaggggcg gatgaccgtg cggaagccgt tgaagtggcc 300  
tgccgggcag gggaaggagg aggtgctctt cgagctgttg gtgtccaggg cactgggaat 360  
cgcagccttc cagccctcga aatcggtgac gtctgccacg aagagccctt cgcagagcat 420  
cagggctttg ttttcgtagg caatggtgcg atctgagccg ccagacttgg tgaggcccan 480  
gacaggggagc tcgtccgagg agcaggagaa gccgtagttc cagcagctct ggatggtg 538

<210> 861  
<211> 204  
<212> DNA  
<213> Homo sapiens

<400> 861  
aggcggagag gatcatgtcc gggaactgcg gggtagtagc gatctggggtt acccagccgt 60  
tgtggccctt gaggggtgcca cgaaggggtca tctgctcagt catggcggcg acgagagcgt 120  
gtgtcgctgc agcgacgagg atggcactgg atggcttaga gaaactagca ccacaacctc 180  
tctgcccgcg tcgacgcggc cgcg 204

<210> 862  
<211> 217  
<212> DNA  
<213> Homo sapiens

<400> 862  
aatgtcaggg gtgttggggg ctttggtggtg gtccctgggtc ttcgtgtaga gacctggagg 60  
cgcttggttc ttgggggttct ccaggattcc agcctcgtag ctgatgtgca tgaggttctc 120  
atccatgctc caggggttct tgggagtgc cgggatggga atcccgtgtt gctttgcgta 180  
ctccatcagg tcattgcggc ccttgaaccg gttgtag 217

<210> 863  
<211> 192



```

cncctggtac cgggcccccc cacttttaaaa tcttttgtta agaaatagga aagattagga 60
aatatcatatc tgcacctgaa atgctgcagc aggggttttt gtttgcttgt ttttgcctt 120
cag 123

```

```

<210> 868
<211> 634
<212> DNA
<213> Homo sapiens

```

```

<400> 868
caggctgctg taggtggcaa tctcctgctc cagccgcgac ttgatgtcca tgagccgctg 60
gtactcctga ttctgccgct cactatcagc tcgcacatcg cccagctggg cttcaatacc 120
gctgatcagc gcctggatat gcgccagctg ggctccaaag cgcgcctccg tttctgccag 180
tgtgtcttcc aaggcagctt tcatgctcag ctgtgactgc agctcaatct caagaccctg 240
aagggtgctc cgcaggtcag taacctcgga cctgctcatc tggagctgct ccgtgtggcc 300
agcgacctcc cggttcaatt cttcagtcag gctgggtgaac caggcttcag catccttccg 360
gttctgctcg gccatgacct catattggct tcgcatgtca ctcaggatct tggcgagatc 420
gggtgcccgga gcggaatcca cctccacact gacctggcct cccacttggc ccctcagcgt 480
actgatttcc tctcatggtt tcttcttcag gtaggccagc tcttccttca ggcccttcgat 540
ctgcatctcc aggtcgggtc tggccagggt cagctcatcc agcaccctgc gcaggccggt 600
gatgtcggcc tccacgtca tgcgcagagc ctgt 634

```

```

<210> 869
<211> 197
<212> DNA
<213> Homo sapiens

```

```

<400> 869
agggcgagag gatcatgtcc gggaactgct gggtagtagc gatctgggtt acccagccgt 60
tgtggccctt gagggtgcca cgaagggtca tctgctcagt catggcggcg gcgagagcgt 120
gtgtcgctgc agcgacgagg atggcactgg atggcttaga gaaactagca ccacaacctc 180
tcttgcggcc gtcgacg
197

```

```

<210> 870
<211> 579
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 155, 215, 224, 246, 262, 272, 288, 313, 316, 382, 426, 433,
469, 482, 483, 507, 518, 521, 530, 564
<223> n = A,T,C or G

```

```

<400> 870
cgccgcgcct tttttttttt tttttttttt tttttatggg gccaatttta aatagtttta 60
tttaagacat tgcattttcc acttacaata cagtgtttat aaagtgcaat gttatttcct 120
tcccctgtgc atatgttcca tattcaagta ttganaatgc ccagtaactt actatagcag 180
cttaactttt taaaactgcc acagaatttg ctacnaattt aggncccttca aatgttttaa 240
atgtgnggaa caatgctaca tntacacttg gntggcttaa tcaacctntt caatgggggg 300
ccctgaggaa gcnccnccag agggaggagc tccaccacca ggaaatcccc caggcattcc 360
tcttggcatg cctcctgcac tntggtacag cttggtgatg atgggggttg aaactttctc 420
cagctntttc tgntgatgtt caaattcttc cttctcagca gtctgattnt tatcaagcca 480
gnngataatt tcattacact tgtccanaat cttctgtntg nctcatcogn taatcttgcc 540

```

ttgaagtttc tcattcttcaa cagntgcttt catgttgaa

579

<210> 871

<211> 518

<212> DNA

<213> Homo sapiens

<400> 871

```
ctttctcctt cttatagacg ttccggacgg gcatgaccgg tccggtcagc tgggtggcca 60
gtttcagttc ttcagcagaa ctgtctccct tcttgggggc cgagggttc ctggggaaga 120
ggatgagttt ggagcggtag tctttcagcc gctgcacgtt ggctgcagg gactccgtgg 180
acttgttccg cctcctcgga tccacagaaa tgccgatggt ccgggccacc ttcttgtaga 240
tgccggccac cctgagctcc tccaggctga agccgcggcc ggcgcgacc ttctgtggt 300
accgaaccgt ggggcagcgc acgatgggcc ggatgggacc cgacgcggg cgcggggcga 360
tgccggcgcg cttggcttgc cgggccttac gtctgcggat ctacgggcc ggctggttga 420
accacgtggc cagcgccgc tgccagtcct tgtggaagtg gggcttcaag accatgccat 480
tccggctggg cgccatgggt gcctacggcc ctgcggct 518
```

<210> 872

<211> 404

<212> DNA

<213> Homo sapiens

<400> 872

```
ctaaacactg tccagcgcag gggggtgcta gggaggtagc gtgacaacac gatggctgcg 60
atgcctgaag tgatgaccac gatggcgga gtgacagaga ggatgttgac cacgcagtag 120
tgcagagcca ccgcattctg aggggtgccc acgtagcgca gcaactgtgc atggaacagg 180
gcagctgtga tgaagctcac atggcccagc accaccagca ccaggcctgt cttcatcagc 240
accttcogga agtcgcccac actcaggcct ccgaggcgca gacacatgtc ggctccgcgc 300
tggtcccgcc ccggcttca gcgcggctcc cgaggctgcg ggccgcggg ggacctgct 360
cccatccgcg tggcccgctg cccgcgcgcc ccgcaccgtc gcgt 404
```

<210> 873

<211> 175

<212> DNA

<213> Homo sapiens

<400> 873

```
ggctgccagc gcctctaccc cgtgctgcag cagagcctgg tgcgggcccgc ccgccgcagg 60
ggcgccgcgc ccagccctg aaccagaagc ctgagcaact acggacgcaa gccgaggacc 120
gtgctgccgc cgtccacgaa aagaccgcgc ccatcggcct ccagtttgcg tcgag 175
```

<210> 874

<211> 215

<212> DNA

<213> Homo sapiens

<400> 874

```
ggtagagaac cctgcggctg cgctttcggt gcccgcgaga ggcgctgggg cgcccggcag 60
gggccgctgc gggctccggg agagggtcga aggtgaagat ctgaggaccg gagccccgcc 120
ggggtcccgg gatggtggag ggggccgggg tcggggcctg caggatggtc atggtcgggt 180
ggcagctgcg agagtgcac atggtgagcc gagcg 215
```

<210> 875

<211> 208  
 <212> DNA  
 <213> Homo sapiens

<400> 875  
 atccagagac aatctgccgg ttgtcagagg agaaggccac actcagcaca tccttggtat 60  
 ggcccacaaa tcgcctcgtg gtgggtgccg ttgtgagatc ccagaggcgc agggttccat 120  
 cccaggagcc tgagagggca aactggccat ctgaggagat aaccacatca ctaacaaagt 180  
 gggagtgacc ccgcagagca cgctgtgg 208

<210> 876  
 <211> 484  
 <212> DNA  
 <213> Homo sapiens

<400> 876  
 gagcagctgg tttctcctgg acagcagcat ctggctccgc tcccttcgga actccaggta 60  
 ctcttatttg tttttgagct tgttcatgca gtccatgagg gctgggtagc cacctgagaa 120  
 tcgccacagg tgcactgcct ggtcctgctc cccataccac gtgttccagt tgcccacgag 180  
 tgagcatggg tagtcctcat ccagggtgaag cttgggcagc acagcctccg tgaggctggt 240  
 gtaggcatcc aggtattcag gctttacatt gtgaaactgg atcttataga ggttgctggt 300  
 ttccttcttg gacagcaggg tggagtgggc atccttccgg ggatccactt tgtgaacaaa 360  
 gagggagcgg aaccagctgc cttcattgtc cttggaatag aaacgcgccg cagctgcaga 420  
 cgcaacgtcc ccagcgcgag gccccggggc cccagcagc cgccgcgccg tcacagagat 480  
 gctg 484

<210> 877  
 <211> 558  
 <212> DNA  
 <213> Homo sapiens

<400> 877  
 ggcgtcctgg tgcttaccac ctggaaactg gtgaggtggt gggagaactc ctggtggacc 60  
 ctagtggaag ccttccagta atttcttgaa gctgagcgtc caggtgagta gggcgacatc 120  
 ttggtggccg ttgttgaaagg tcattgcaga gaggaaggaa gccgaggagg ggagcctgca 180  
 gtgagggcgt cctgggggttc tccggttctc accacccttg ggccacgccg tctagtccac 240  
 acctgaggag ttggtcaggt agaaggggcg gatgaccgtg cggaagccgt tgaagtgcc 300  
 tgccgggcag gggaaggagg aggtgctctt cgagctgttg gtgtccaggg cactgggaat 360  
 cgcagccttc cagccctoga aatcggtgac gtctgccacg aagagccctt cgcagagcat 420  
 cagggttttg ttttcgtagg caatggtgcg atctgagccg ccagacttgg tgaggcccag 480  
 gacagggagc tcgtccgagg agcaggagaa gccgtagtct cagcagctct ggatggtggg 540  
 gaggtagacc agggacca 558

<210> 878  
 <211> 503  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 132, 185  
 <223> n = A,T,C or G

<400> 878



```

cggccgcaac cgcgcggaacc cgaagtcgat gatatttcacc ggggccccgg gcgtgtcgtc 60
ggcgtacagg atgtttctccg gcttgaggtc gcggtgcacc acgcccgcct cctcgtgcat 120
gaagctcacg gncgacacga ggctgcgcag gatctggctt gcttccgact cgtgaagtg 180
ccgcntcttg cggatgtgct ccagcagctc cccgccccgc agcagctcca ggaccaggta 240
cgtgtgcagc tggtcgtgat gcacctcgtg cagattcacc acgttggggg gtgactggca 300
caggcgagg gcagccactt cgcgctgcgt gttcgcctcc agcctgcgac tgaggatctt 360
gactgcgaac tcctggccgc tctggcgctg gcggcagcgg cgacacacag aaaagctgcc 420
ctggcccagc gcaggctccc gcaggctccag ctcgtactgc tggaagaagg gcgagtcctg 480
catcatagcg ctctggcca ccg 503

```

```

<210> 879
<211> 78
<212> DNA
<213> Homo sapiens

```

```

<400> 879
ctgcctcggc tggcggggcg ggggaggcgg agagctcggg gcacgcgctg ccgtccggac 60
cgcgtcgacg cggccgcg 78

```

```

<210> 880
<211> 211
<212> DNA
<213> Homo sapiens

```

```

<400> 880
tgatgtgggc gattgatgaa aaggcgggtt aggcgtcttg tgagtagtgc atggctagga 60
atagtctgt ggtgatttgg aggatcaggc aggcgccaag gagtgagccg aagtttcac 120
atgcggagat gttggatggg gtggggaggc cgatgaatga gtggttaatt aattttatta 180
gggggttaat tttgcggtcg acgcggccgc g 211

```

```

<210> 881
<211> 373
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 37, 38, 88, 335
<223> n = A,T,C or G

```

```

<400> 881
cccacagtgg cttgtttccg cagtgcgcgg ccgtcannac ccaactctgg tccaccagga 60
caccgcgcga gtggaacgag aggcgctnga agagcgagac ctgccagggc tgcgagccgc 120
gcgcgcacgg ggccgcatag gcttcggggg ccaagcgcgt gtcgttttgg gggagcagcg 180
ccgcctctgc ggcccagagt tgcgccatca gcagcggcag cagcttcgcc agagcccggg 240
cgccagaggc ggccgagagg ttgagggtcg gagctctcat ggccaggatc tgggagtcgc 300
cgataggaag gagggagggg acccagacgt gcctntgccc tgcctgtggg ctgcgcgctc 360
cgacacggcc gcg 373

```

```

<210> 882
<211> 300
<212> DNA
<213> Homo sapiens

```

<220>  
 <221> misc\_feature  
 <222> 48  
 <223> n = A,T,C or G

<400> 882  
 cggccgcgtt tttttttttt ttttcagaca attcagcctt tattttanaa aataattctg 60  
 tagcttccac tttctttcat gaaactgagg tcaggcaaga aacaaaaatc caccaagtcc 120  
 tctccatcct gccatggcgt cctggcctgt gaggacatgg ggcgcctggg agcgggcggg 180  
 gaggctgggc agcactgggc cagaggcgtc ctggctactg ctccacctgg tctactgctcc 240  
 acctcatgct gagaggagcc tgtgtgtcaa accccagggg aaaaaggac aggcagatcg 300

<210> 883  
 <211> 230  
 <212> DNA  
 <213> Homo sapiens

<400> 883  
 ggtagagaac cctgcggctg cgctttcggg gcccgcgaga ggcgctgggg cgcccggcag 60  
 gggccgctgc gggctccggg agaggggtcga aggtgaagat ctccaggacc gagccccgcc 120  
 ggggtcccgg gatggtggag ggggcccggg tcggggcctg caggatggtc atggtcgggt 180  
 ggcagctgcg agagtgcac atggtgagcc gagcggtcga cgcggccgcg 230

<210> 884  
 <211> 601  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 555  
 <223> n = A,T,C or G

<400> 884  
 gcccccaatt ccagctgcc aaccacccac ggtgactgca ttagttcgga tgtcatacaa 60  
 aagctgattg aagcaacct ctactttttg gtcgtgagcc ttttgcttgg tgcaggtttc 120  
 attggctgtg ttggtgacgt tgtcattgca acagaatggg ggaaaggcac tgttctcttt 180  
 gaagtagggg gagtcctcaa aatccgtata gttggtgaag ccacagcact tgagcccttt 240  
 catggtgggt ttccacactt gagtgaagtc ttcttgggaa ccataatctt tcttgatggc 300  
 aggcactacc agcaacgtca ggaagtgtc agccattgtg gtgtacacca aggcgaccac 360  
 agcagctgca acctcagcaa tgaagatgag gaggaggatg aagaagaacg tcacgagggc 420  
 acacttgctc tcagtcttag caccatagca gccaggaag ccaagagcaa agaccacaac 480  
 gccggctgcg atgaggaagt agcccacgtt gacaaactgc atggcactgg acgacagtgg 540  
 cccgaagatc ttcanaaagg atgccccatc gattgacacc cagatgcccc ctgccaacag 600  
 g 601

<210> 885  
 <211> 207  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature





<210> 893  
 <211> 208  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 160  
 <223> n = A,T,C or G

<400> 893  
 gaggcggaga ggatcatgtc cgggaactgc ggggtagtag cgatctgggt taccagccg 60  
 ttgtggccct tgagggtgcc acgaagggtc atctgctcag tcatggcggc ggcgagagcg 120  
 tgtgtcgtcg cagcgacgag gatggcactg gatggcttan agaaactagc accacaacct 180  
 ctctgccggt tcgacgcggc cgccaatt 208

<210> 894  
 <211> 67  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 9  
 <223> n = A,T,C or G

<400> 894  
 gcgatgganc gtgggtaggg aggggtccaca gtgtccactc gccgtgtgcg aaggttgact 60  
 cggtagt 67

<210> 895  
 <211> 58  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 50, 52  
 <223> n = A,T,C or G

<400> 895  
 gcggcgcgcc tttttttttt tttttttttt tttttttttt ttttttcccn cnctaaaa 58

<210> 896  
 <211> 177  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 24, 63, 84, 87  
 <223> n = A,T,C or G

```
<210> 897
<211> 542
<212> DNA
<213> Homo sapiens
```

```
<210> 898
<211> 165
<212> DNA
<213> Homo sapiens
```

```
<400> 898
tancnatctg ggttaccag cgttggtggc ccttgagggn gccacgaagg gtcattctgct 60
cagtcattggc ggcggnana gcgtgtgtng ctgcancgac gaggatggca ctggatggct 120
tanagaaact agcaccacaa cctctcgtcg acgcggccgc gaatt          165
```

```
<210> 899
<211> 67
<212> DNA
<213> Homo sapiens
```

```
<210> 900
<211> 77
<212> DNA
<213> Homo sapiens
```

```
<400> 900
cttccagggtc cagagctccc aggtttccag gttgcagtcc ctccagtccc agagctccca 60
gggtttcggg ttccagt                                     77
```

<210> 901  
 <211> 114  
 <212> DNA  
 <213> Homo sapiens

<400> 901  
 gggccgggga ggacggctgg gggctccggg gtcgcctgca caattgcctg agcaggaggc 60  
 gcaagtggga gatgacgata aagggcgggg ccagcgcggg ccgagagtgg aatt 114

<210> 902  
 <211> 64  
 <212> DNA  
 <213> Homo sapiens

<400> 902  
 tacactactc ctgaggatgc tactcccag cccggagagg acccacgcgt gaccggggcc 60  
 aagt 64

<210> 903  
 <211> 63  
 <212> DNA  
 <213> Homo sapiens

<400> 903  
 tcaaaagctg tgggtgaggc aggtcgacgc ggccgcgaat tccaccacac tggactagt 60  
 gat 63

<210> 904  
 <211> 142  
 <212> DNA  
 <213> Homo sapiens

<400> 904  
 tcctcagcca gggagacagg gaccaggcag cacaggcctg ccagcaggag gatgccccac 60  
 gagacagaag acggcattgt cgattcactg tcccaggta ggtcgacgcg gccgcgaatt 120  
 ccaccacact ggactagtgg at 142

<210> 905  
 <211> 101  
 <212> DNA  
 <213> Homo sapiens

<400> 905  
 tccactagtc cagtgtggtg gaattcgcg ccgcgtcgac gccacotccg agagcctgga 60  
 tgtgatggcg tcacagaaga gaccctccca gaggcacga t 101

<210> 906  
 <211> 506  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature

<222> 233, 273, 302

<223> n = A,T,C or G

<400> 906

```
gcggccgcac acacagccag gcgctaggct ccctgcggga cctcgggaag ggggaagagc 60
gtcaacaatt tacggagggt ccagccgctg ggtcagattg agacaaacca ttgtgtggtt 120
gggtttgggt cagcaggctg gagagggttc tgttcttttt gatcattatc gtttggggcc 180
ccaagggagg gtcttgggag ccacctgagc cccaaagctg ggaaattcct canagctgct 240
catgtcagga gccttctcac tgctgctggc ggnccagggt gcgtcccgc caacaaagcc 300
tntggaaggt gccttggcct ctctgtgtgc tgggggtttc atgtatacct gcagcgctc 360
actgtccacc acgtcagcta ggtattcttc ctccagattg aggatgtggt cgatggcttc 420
ctccacattc tctgggagcc ccgtcacagt gacgcagttg gggctctggg ctccgctctg 480
tgggaagcga atgtccacct tgaatt 506
```

<210> 907

<211> 93

<212> DNA

<213> Homo sapiens

<400> 907

```
tcccgtgca caagttcacg tccatccgcc ggaccatgtc ggaggttggg ggctctgtgg 60
aggacctgat tgccaaaggc ccgctctcaa agt 93
```

<210> 908

<211> 238

<212> DNA

<213> Homo sapiens

<400> 908

```
gggtagagaa ccctgcggct gcgctttcgg tgcccgcgag aggcgctggg gcgcccggca 60
ggggccgctg cgggctccgg gagagggtcg aaggtgaaga tctcaggacc ggagccccgc 120
cgggggtccc ggatggtgga gggggccggg gtccgggcct gcaggatggt catggtcggg 180
tggcagctgc gagagtgaca catggtgagc cgagcggagg tcgacgcggc cgcgaatt 238
```

<210> 909

<211> 190

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 25, 56, 92, 97, 125, 132, 137, 140, 149, 150, 152, 175, 181

<223> n = A,T,C or G

<400> 909

```
gggcgtcctg gtgcttacca cctgnaaact ggtgaggtgg tgggagaact cctggnngac 60
cctagtggaa gccttccagt aatttcttga anctgancgc tcaggtagt agggcgacat 120
ctggnngccg gntgttnaan gtcattgcnn anaggaagga agccgaggag ggganccctg 180
ngtgagggcg 190
```

<210> 910

<211> 93

<212> DNA

<213> Homo sapiens



<400> 910  
 tcccgtctga caagttcacg tccatccgcc ggaccatgtc ggaggttggg ggctctgtgg 60  
 aggacctgat tgccaaaggc cccgtctcaa agt 93

<210> 911  
 <211> 261  
 <212> DNA  
 <213> Homo sapiens

<400> 911  
 gggctccgtca gggctgaaga cctgcccagg cacacaactc accacggccg gtagccatt 60  
 ctgcaggtg acattcttca tgggggtccag tgacacctgg gggcccagct tgcagctgga 120  
 gatgtgggcc tctgtgccgg tgcagtccat ggagaatggc cagtagcgct gcttcctccg 180  
 tgaggcaaac attttgtaca ctttgggtatt gtatgtcctc tcccaggga agccaaacat 240  
 gccgcagacc acgcgggaat t 261

<210> 912  
 <211> 67  
 <212> DNA  
 <213> Homo sapiens

<400> 912  
 gcgatggagc gtgggtaggg aggggccaca gtgtccactc gccgtgtgcy aaggttgact 60  
 cggtagt 67

<210> 913  
 <211> 545  
 <212> DNA  
 <213> Homo sapiens

<400> 913  
 gctttctcct tcttatagac gttccggacg ggcattgacc gtccggtcag ctgggtggcc 60  
 agtttcagtt ctccagcaga actgtctccc ttcttggggg ccgagggctt cctggggaag 120  
 aggatgagtt tggagcggta ctccctcagc cgctgcacgt tggcctgcag ggactccgtg 180  
 gacttggtcc gcctcctcgg atccacagaa atgccgatgg tccgggccac cttcttgtga 240  
 atgccggcca ccctgagctc ctccaggctg aagccgcggc cggcgcgcac ctctgtgtgg 300  
 taccgaaccg tggggcagcg cacgatgggc cggatgggac ccgacgcggg gcgcggggcg 360  
 atgcggcgcg ccttgggttg cggggcctta cgtctgcgga tcttacgggc cggctgggtg 420  
 aaccacgtgg ccacgcgccg ctgccagtcc ttgtggaagt ggggcttcaa gaccatgcca 480  
 ttccggctgg gcgccatggc tgccctacggc cctgcggctc ctgcgcgtcg acgcggccgc 540  
 gaatt 545

<210> 914  
 <211> 295  
 <212> DNA  
 <213> Homo sapiens

<400> 914  
 gctcggcatc agaccagttc ctccagcttcc tgaagtaacc atagcaattg gacttgtggt 60  
 aaaaccatcc aggagcacag ctgggtctca tgatgatatc acccaggact cctgttttgg 120  
 ccaggcagct cagcaatagg agcagccgca tgcttctgga agccatcttc ctctaccct 180  
 gaggatgtag ctagtgaag gatctcagag accttactag cgcttctttg aaactcctgg 240  
 gttctccttg atctgcaaat ctgtttggca accaaggctc acgcggccgc gaatt 295



aagcagcaat gcancacgag gcgaaggcca anaaggngan aagcaccanc atcgacttcc 420  
ccattgggat tccattgggt gtctgga 447

<210> 918

<211> 574

<212> DNA

<213> Homo sapiens

<400> 918

gctccttggc gagcacgtga ccccgggcggg cacgcaggag ggcaggcagg cccctgcgca 60  
ggcgctgggt ggactgcttc caggtgtcat attggaagaa cttgcccacg gggatatctgg 120  
ggaagtgtgc cggaagcacg gtcggaagggg tgcacacgtc cctctcggac ttggcggggg 180  
tagcacagta cgtctccagg agggccagggt cacagctgcg gaaacagcac tcctcaacga 240  
tgccacggct gcgacggctc acacggcctt cgggcctgct gaagtagaag ccgcgggtccc 300  
cacagacgaa ctggagggtg tccaccagct ccccgccgca cagggtctca ctggggcgggt 360  
aagcagcaat gcagcacgag gcgaaggcca agaaggtagag aagcaccagc atcgacttcc 420  
ccattgggat tccattgggt gtctggaagc cggcgacgct gccgcccacc tccctgctgc 480  
gtgtcgcaaa ccgaacagcg ggcgttggcc ctcttgccgg aactcctct gccagcgccg 540  
ctctggccga gtcgcggggg ccgaatgtgc gacg 574

<210> 919

<211> 139

<212> DNA

<213> Homo sapiens

<400> 919

gccgcgctcg tcgtcgacaa cggctccggc atgtgcaagg ccggcttcgc gggcgacgat 60  
gcccccggg ccgtcttccc ctccatcggt gggcgcccca ggcaccaggg cgtgatggtg 120  
ggcatgggtc agaaggatt 139

<210> 920

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 526, 553, 556, 571

<223> n = A,T,C or G

<400> 920

ggtggacacc accctcaaga gcttgagcca gcagatcgag aacatccgga gccagagggg 60  
cagccgcaag aacccccccc gcacctgccg tgacctcaag atgtgccact ctgactggaa 120  
gagtggagag tactggattg accccaacca aggtgcaac ctggatgcca tcaaagtctt 180  
ctgcaacatg gagactgggt agacctgcgt gtacccact cagcccagtg tggcccagaa 240  
gaactggtag atcagcaaga accccaagga caagaggcat gtctggttcg gcgagagcat 300  
gaccgatgga ttccagttcg agtatggcgg ccagggtcc gaccctgccg atgtggccat 360  
ccagctgacc ttctgcgcc tgatgtccac cgaggcctcc cagaacatca cctaccactg 420  
caagaacagc gtggcctaca tggaccagca gactggcaac ctcaagaagg ccctgctcct 480  
ccagggctcc aacgagatcg agatccgcgc cgagggcaac agccgnttca cctacagcgt 540  
cactgtcgat ggntgnacga gtcacaccgg nacct 576

<210> 921

<211> 421

<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 387, 408, 409, 413, 419  
<223> n = A,T,C or G

<400> 921  
gcgcatctgc ccgccctagt cggggaagag caggaagccg gagaagacgc tgtcagagcc 60  
ctggatgccc accatgtcgt agtagtcatt gacagccagc cacacctcct cgcccacctg 120  
caacctcagc agcacaccgc ccgagttgac ctgattgggt ttggacgtgt ggccacagaa 180  
ggtgaccact ttgacgccgc tgcggtacag cagcacgcac aggttggctg tatgcgacgc 240  
gtggtagaca aagtagtaga ggccggggac tttgcagggt aacttgccag tgctcgtgtc 300  
ataatctccc tgcgggttgg tgaggaccgc gttgaatctg atcaggctgt tgggtgcagg 360  
gggctggtgg gtctgccgag tgaccngaa cactgactgg aatttctnnt tgnatctgnc 420  
c 421

<210> 922  
<211> 177  
<212> DNA  
<213> Homo sapiens

<400> 922  
gacattttat gacctctccc aataggggca gaggtgagca cccctggtga aaagttaaga 60  
ctcagtgagt ataaatacgc caagaagagc tgtggcttct ttcactggtg tctcagaaa 120  
ggctgtgagc agtgttggtg gcatacctgt cacagcatct agcaaagcac ctgaatt 177

<210> 923  
<211> 133  
<212> DNA  
<213> Homo sapiens

<400> 923  
tccactagtc cagtgtggtg gaattcgcgg ccgcgtcgac gcgagcagcg gcggcgggcg 60  
ggagagacgc agcggaggtt ttcctgggtt cggaccccag cggccggatg gtgaaatcct 120  
ccctgcagcg gat 133

<210> 924  
<211> 216  
<212> DNA  
<213> Homo sapiens

<400> 924  
gggtagagaa ccctgcggct gcgctttcgg tgcccgcgag aggcgctggg gcgcccggca 60  
ggggcgctg cgggctccgg gagagggtcg aagtggaaga tctcaggacc ggagccccgc 120  
cgggggtccc ggatggtgga gggggccggg gtccgggcct gcaggatggt catggtcggg 180  
tggcagctgc gagagtgaca catggtgagc cgagcg 216

<210> 925  
<211> 649  
<212> DNA  
<213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 441, 510, 603  
 <223> n = A,T,C or G

<400> 925  
 ggcccccaat tccagctgcc acaccaccca cggtgactgc attagttcgg atgtcataca 60  
 aaagctgatt gaagcaaccc tctacttttt ggctcgtgagc cttttgcttg gtgcagggtt 120  
 cattggctgt gttggtgacg ttgtcattgc aacagaatgg gggaaaggca ctgttctctt 180  
 tgaagtaggg tgagtcctca aaatccgtat agttggtgaa gccacagcac ttgagccctt 240  
 tcatggtggt gttccacact tgagtgaagt ctctctggga accataatct ttcttgatgg 300  
 caggcactac cagcaacgtc aggaagtgtc cagccattgt ggtgtacacc aaggcgacca 360  
 cagcagctgc aacctcagca atgaagatga ggaggaggat gaagaagaac gtcacgaggg 420  
 cacacttgct ctcagtctta ncaccatagc agcccaggaa accaagagca aagaccacaa 480  
 cgccggctgc gatgaggaag tagcccacgn tgacaaactg catggcactg gacgacagtg 540  
 gccgaagat cttcagaaag gatgccccat cgattgacac ccagatgcc actgccaaca 600  
 ggnctgcacc acacagaaag atgagcaaat tgaagaggat catcatggt 649

<210> 926  
 <211> 341  
 <212> DNA  
 <213> Homo sapiens

<400> 926  
 gggctcctcaa actctcgaat gtacggcgca atgccacaat aaggttgatt gtggtgtttt 60  
 tcatgtggca gtttctccag ggttggcagg tatggaatag ggtcacgggg ggcaaagagg 120  
 gccagaaggt tgggcggcag gaactgggtc atcttgccaa gtcgcgtagc gccctctctg 180  
 ctctggcgtc tgtccgagg ctgcggcgcg ctgcggcgag ccctcagcaa caacaactcc 240  
 tgcttcggct tccactccgg gggcggtccac gtccgtctga ttccgtcgcc cgctaagcga 300  
 gcgcaccaga ccgctgctca gcgtcgacgc ggccgcgaat t 341

<210> 927  
 <211> 431  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 265, 298  
 <223> n = A,T,C or G

<400> 927  
 gcggccgcga cgctggtttt gcattcttcag gagacgctcg tagccctcgc gcttctcttc 60  
 ggccaattcg cggaagaagt ggctcacgcc ttccagagcc acatcatcgc ggtcgaaata 120  
 gaagcccaga gagaggtagg tgtaggaggc ctgcaggtag aaattgacca ggctgttgac 180  
 ggctgcctcc acgtcggttg aataattctg acgaatctgg gagctcatgg ttggttgga 240  
 agaaggagct aaccacaaaa acgngctgg cagggtcccag aagcaggaga tggccganaa 300  
 gatggtcccg gaggttgcaa gcggagagga aatcgagggg cggtcggagg ctggaagaga 360  
 gtccccgat ctgttccgtc caaacactgt tgaagcaaga gacagaccgc cggtcgacgc 420  
 ggccgcgaat t 431

<210> 928  
 <211> 538  
 <212> DNA

<213> Homo sapiens

<400> 928

```
gtggcctgca aggccgcgga cagggcgagc accgagtcgt acattttgca gctcatcatc 60
cccggtgctct gcgtgacgca gtccatccac agccccttgt acatggcctg ggccgtgatg 120
atgttgtcac ccgcatagga gctcatctgc cactgcggga tggcggtgca ggccaccaga 180
cccacccagc ccagcagggc catggagaag cccagcaact gcaggccoga attggccatt 240
tccgccctca gaaaacactg ggggcgcggg gcgggagacc ctacagtaaa aaaaacgaca 300
cttggggggc agccccacaa aagaaaactt gaggtggagt tttccggtca ccaaagaga 360
caaaaagggg ttgggcccagg tgaatgcaaa tcttgtcacc aaactacaca caaatcgacc 420
cctccagtga agcgatggcc tcgcggcaca gggagtagga tacgccggga ggggtggttcc 480
agacaaaatt ggtggtcccc gaaggccagg cggttccctc cgggcgctct cggcgacc 538
```

<210> 929

<211> 69

<212> DNA

<213> Homo sapiens

<400> 929

```
ctcctcgacc accagcttgc actggcagta gttgagcagc agcggcgtga tctgcttgtc 60
cagctggat 69
```

<210> 930

<211> 544

<212> DNA

<213> Homo sapiens

<400> 930

```
gctttctcct tcttatagac gttccggacg ggcgatgaccg gtccgggtcag ctgggtggcc 60
agtttcagtt cttcagcaga actgtctccc ttcttggggg ccgagggctt cctggggaag 120
aggatgagtt tggagcggta ctcccttcagc cgtctgcacgt tggcctgcag ggactccgtg 180
gacttggttc gctcctcggg atccacagaa atgccgatgg tccgggccac cttcttgtga 240
atgccggcca ccctgagctc ctccaggtcg aagccgcggc cggcgcgcac cttcgtgtgg 300
taccgaaccg tggggcagcg cacgatgggc cggatgggac ccgacgcggg gcgcggggcg 360
atgcggcgcg ccttggcttg ccgggcctta cgtctgcgga tcttacgggc cggctggttg 420
aaccacgtgg ccacgcgccg ctgccagtc ttgtggaagt ggggcttcaa gaccatgcca 480
ttccggctgg gcgccatggc tgccctacggc cctgcggctc ctgcggtcga cgcggcccg 540
aatt 544
```

<210> 931

<211> 596

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 538

<223> n = A,T,C or G

<400> 931

```
gttgctgcag tggcttgggc gtcaggaggc tcaactgaggg ggccacatga ccccagccag 60
tgacagtgca gtggaggccg ttggggaagg aggcgttggc tgcaggagg cagatgggcc 120
ggatgtagcg ggagaagggt atgggtctgc tgagttggag gagtgcaatg tcgccctggg 180
agccctcctg gaggtagctg ggggtggggg tgatgtcctt cagggtgctg accttggcgt 240
```

```

cctcggagta ggagtctagc tgggtgggccc ccagcttgac ctcataggct tccttgtggt 300
gctcgtctggg gaagcagtga gcagctgaca gcacccactg ctcagacacg agagagccac 360
cacacacatg gacgccttca taggtgatgc tgacctgcca gggccactga ccggcgactg 420
cactgctgcc acctgtgatg cgtgcttggg gggccacacc gcagggagct tctgcccctt 480
ccgctcctgt ccccgaccgg agtaatccaa gatagagcag aatggccaca gccccanct 540
gcccaggccc caggaccccc ttctgggcca tggcccagga caagggcccc tggggc 596

```

```

<210> 932
<211> 153
<212> DNA
<213> Homo sapiens

```

```

<400> 932
tctgtgctgg ggtctgggct ccgtggagag atgtgtaggg gtaatgagaa attgatcagc 60
aatgagaggt ggactctgag ccacctccct gaccctgaat cattcaagcg aggagcagag 120
gagctcttga ctggggggacg gggatgtgag gat 153

```

```

<210> 933
<211> 112
<212> DNA
<213> Homo sapiens

```

```

<400> 933
tcaaacttgc cattgttaaa agcagccaca ttttggacct gcagtttctt cagaaatagt 60
taggattctg tgtcgacgcg gccgcgaatt ccaccacaat ggactagtgg at 112

```

```

<210> 934
<211> 74
<212> DNA
<213> Homo sapiens

```

```

<400> 934
gtggccatcg agtccccatc ctggtcggcc acccggaaac gccgctcgtc ccgaggtcga 60
cgcggccgcg aatt 74

```

```

<210> 935
<211> 380
<212> DNA
<213> Homo sapiens

```

```

<400> 935
gcggccgcca tcttggtcct tttccaccat tttcagcccc tccagggtct ggaggacccg 60
gcggccacac ctcttggagc ctcggtgtaa gtggctgggc atgacgccgt ttctctgacg 120
tccccatag atcttgggtca tggagccaac ccagcgcca ccccgaggt acaggtgccg 180
cgctgtggaa gcagctcgcg tgtagaacca gttctcatcg tagggagcaa gctctttgtg 240
cttggccagc ttgacgggat ccacccattc ggggaatttc agcttcccgg actttttgag 300
gaaggctgcc agagctctga cgaactcctg ctggttcacg tcttttacag taactccagg 360
catcgtgcgg cctccgcgcg 380

```

```

<210> 936
<211> 155
<212> DNA
<213> Homo sapiens

```

<400> 936  
 ctggcgcttt gaggatgggt tcctggaccc tgattacccc cgaaatatct ctgacggctt 60  
 cgatggcatc ccggacaacg tggatgcagc cttggccctc cctgcccata gctacagtgg 120  
 ccgggagcgg gtctacttct tcaaggggaa acagt 155

<210> 937  
 <211> 213  
 <212> DNA  
 <213> Homo sapiens

<400> 937  
 gaggcggaga ggatcatgtc cggaactgc ggggtagtag cgatctgggt taccagccg 60  
 ttgtggccct tgagggtgcc acgaagggtc atctgctcag tcatggcggc ggcgagagcg 120  
 tgtgtcgtcg cagcgacgag gatggcactg gatggcttag agaaactagc accacaacct 180  
 ctctgccgc cgccgtcgac gcggccgcga att 213

<210> 938  
 <211> 261  
 <212> DNA  
 <213> Homo sapiens

<400> 938  
 gggtcctgca gggctgaaga cctgcccagg cacacaactc accacggccg gtagccatt 60  
 ctgcaggtg acattcttca tggggtccag tgacacctg gggcccagct tgcagctgga 120  
 gatgtgggcc tctgtgccgg tgcagtccat ggagaatggc cagtagcgct gcttcctccg 180  
 tgaggcaaac attttgtaca ctttgggtatt gtatgtctc tccccaggga agccaaacat 240  
 gccgcagacc acgcgggaat t 261

<210> 939  
 <211> 228  
 <212> DNA  
 <213> Homo sapiens

<400> 939  
 gctcaggctc caaagccagc aggaagagg tagctcggga cgtggagccg ccgcccaggt 60  
 gcgccaggac cacctcggcc gtcaccttag ccagggtggct gcttaggtcc actgtgcgct 120  
 tcacgtcctc attgatcagc ggcggtgcct cggaggaggc gctgcccggc gccggggccc 180  
 aagtcccaag caacaggagc agaaacaagc cggcggctgg cgcgtcga 228

<210> 940  
 <211> 97  
 <212> DNA  
 <213> Homo sapiens

<400> 940  
 tccttcaagt atgcctgggt gctggacaag ctgaaggcgg agcgtgagcg cggcatcacc 60  
 atcgacatct cctctggaa gttcgagacc accaagt 97

<210> 941  
 <211> 200  
 <212> DNA  
 <213> Homo sapiens

<400> 941



```

ggacccaggg gcacaggctc ccagatgata gcccctctct gaatgagcac ccaggcaaca 60
cagtcggggg ctgtgtgtag caaacctgtc agcagctgcc tcctgggaca accaccccct 120
tacatgctat ctatctacca gacaaatgaa agctcttctt accccatctc ccaggcaccc 180
cccagcaagg gctctgaatt                                     200

```

<210> 942

<211> 209

<212> DNA

<213> Homo sapiens

<400> 942

```

gaggcggaga ggatcatgtc cggaactgc ggggtagtag cgatctgggt taccagccg 60
ttgtggccct tgaggtgcc acgaagggtc atctgctcag tcatggcggc ggcgagagcg 120
tgtgtcgtcg cagcgacgag gatggcactg gatggcttag agaaactagc accacaacct 180
ctctgccgc gtcgacgcgg ccgcgaatt                                     209

```

<210> 943

<211> 130

<212> DNA

<213> Homo sapiens

<400> 943

```

gtaaggagcc caagaaaaag tgatgccgcc tggcagactc gccatcccc aacgacacag 60
ggcaggacag cagaggacgt gctgggatta aacacattcc ccctcaaaaa aaaaaaaaaa 120
aaaaaaaaaa                                     130

```

<210> 944

<211> 563

<212> DNA

<213> Homo sapiens

<400> 944

```

gacagtccca gtactctttg ctacagcttc ggggcgggcc tcgtttccgc ttcccggtgt 60
tgggatcccc cttcttgtag tcacgaaaac catcgctggg gaagagcttg ccatcagtgg 120
gatccaggct cacgtcactt ccaccggagt ctgaggagtg ggagctccga gaagcaccag 180
tccctgcggt ggagacgtca gagctgccgg gggagggggc tcctgcgcca cagctgccgg 240
ggtggtaggg gctggcttgc tgaccgtcgt ccagcagctc ctgggcaaag gggctgccct 300
ggtcaaaggg ccctgggtct agggcctcct ggaaggccat gccatcctc tccagcagct 360
caatgatcca actgagctca tcagaagagc tggaagttag gtctcgagc tgggcatgga 420
gttgggtccc cagaggccca aagaccagac gcagctcctc aagggcacaa ttgcagaggg 480
tggcgccatc catgtcacat cgtgagaagt caatggcgct tgcgtcgtac ttgttcttct 540
ccatttggtg gctgatccag tcc                                     563

```

<210> 945

<211> 637

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 629

<223> n = A,T,C or G

<400> 945

```

gctgagcccc ttactgctcc tcccaccaat gggctccctc acaccagga caggactaag 60
agggagctgg cggagaatgg aggtgtcctg cagctgggtg gccagagga gaagatgggc 120
ctcccgggct cagactcaca gaaagagctg gcctgaccac caggcacctc actggcactg 180
ctgacccatc ccagaaacac aatctcaggg acccgagcag ctccaaggac gagaggatac 240
agcagacaca acctaataga gagggcgccct gcagccttaa cctccacggc cttcgatact 300
tatgcaagcc tgggtgttgc cctgtcctca gagtcatcct gcgctcatgc cttttcccga 360
atgggttcac ctctggcagt tgccgcttca gtcttggcct tagcctcatc ttgaagtggg 420
tagctggcgg gagaggggtg ctgcgcccc tgcctggcct gaggtgcag agttgggagc 480
aggacacctc acctgagttt catTTTTTTT catgtccaaa ccatgcacat actatagtcc 540
agaatcaaag cacttttgaa aagtggctgc atggccatcc tccagggccc aggaagttgc 600
attccaaggg cctgtttaca tggcagcana atccatc 637

```

```

<210> 946
<211> 306
<212> DNA
<213> Homo sapiens

```

```

<400> 946
ggcgcgggct cctctccctt cggtgcccc gatgcggagc aagcggctcc cggggaagct 60
ggcgcgtcgg ccggtaccg cggcgagcac ttaggaaggc gcgggggtggc cagttcacag 120
ctgcccgctc caagtggggg gaggcgaatt ggagaggagg aggaggggag gaaaaagagc 180
aaaagtgggg gcgcttgcac cccttctctt ctctcctgc aaagaaaagt ttccgggggt 240
gaaactggcg agtctccgcg ccactgaagt ttccagtcag ttccgaggtc gacgcggccg 300
cgaatt 306

```

```

<210> 947
<211> 71
<212> DNA
<213> Homo sapiens

```

```

<400> 947
ggtccagagc tcccaggttt ccaggttgca gtccctccag tcccagagct cccaggggtt 60
cggtttccag t 71

```

```

<210> 948
<211> 575
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 264, 344
<223> n = A,T,C or G

```

```

<400> 948
gcggccgccc tttttttttt tttttgtcag caaaaatctt ttttaataaga gagtaggatc 60
cagggttagt ttttgtagcc tcggctggcc cgtcggcctc tggcacgctc gaacttccgg 120
cccttgagac ggacgtaggg tttggtgtgg ctgtgcgggg ttcttggggc cttgccgaaa 180
tgccggtaca cctctcggcc cttgcgagga ccgagagca ggacagtgcc acagccctta 240
ggggagtcca gggccagctg gtcnaaagtg aggatcttgc cccctgcctt gaggatgcgg 300
ctgcggggcc ggctggtcac gcgcagtgca cataccttca gttngggtac ctctgaacc 360
cgcacatcat cagttatggg cccacaacc acggcgtct tgttttccc gccaggaagc 420
ttcatcttcc ggatcatccg ggaaaggagc agaggcggcc ggttggtgcg actcataaac 480
aacctcttca acacaacctg gttgaatgtg gagttggttc ttctggccag aaacctgtat 540

```



gtatcct

607

&lt;210&gt; 952

&lt;211&gt; 372

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 952

```

ggatgaggtc aacccgaagg ggttttcttga gaagcagtga cttcttcttg actttggttc 60
tcttctttgt cagccctttt tccttggagc cagtgtccac gaagaagagt ttttcatttg 120
gggctcttga caacaagcca ccgctcgtgc gctcctgtag ccgcacgtct tccaggaact 180
ggtaaacctc cagccccagc ggctcctgag caagccgcgc ccagccccgc ttcttatttc 240
ttgggcctcg ccgccgccgc ctccagcgtg ggtccaccga agtgggccgc agccccagga 300
aaccagaatc ggcacgcgtt ttcgagctgc gcttcccacc aacgccactg cctgtcgacg 360
cggccgcgaa tt 372

```

&lt;210&gt; 953

&lt;211&gt; 275

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 953

```

gccatctgct gttttttctc agcaccttcc gtcttttggt caatacttga gacgaccctc 60
caagatgacc tacgggctcc tacaacattt ttataagcaa ctgagagaag attcctctcc 120
tcattggata attcagctcc ttgctcagtt acagacttca tgcaggctgc catgtcatca 180
tatcgctcag cctgctcggc cagtttgccc ttctgaacca gtcatttttt atccatgact 240
ggatgttctg tgtccggtcg acgcggccgc gaatt 275

```

&lt;210&gt; 954

&lt;211&gt; 189

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 954

```

ggctccact tccctgcttc gatggagaag gcgagggtgt ccagcaggtg ccgtaggtcc 60
ctgaccacgc tgaccaccac cctgggccag cttctgacag tcccacctcc cagttgctgg 120
aggggtagtg gcctcacaga cggccctcct ctatagtcag tgggccaga gtcgacgcgg 180
ccgcgaatt 189

```

&lt;210&gt; 955

&lt;211&gt; 189

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 955

```

gaggcggaga ggatcatgtc cgggaactgc ggggtagtag cgatctgggt taccagccgc 60
ttgtggccct tgagggtgcc acgaagggtc atctgctcag tcatggcggc ggcgagagcg 120
tgtgtcgtcg cagcgacgag gatggcactg gatggcttag agaaactagc gtcgacgcgg 180
ccgcgaatt 189

```

&lt;210&gt; 956

&lt;211&gt; 216

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 956  
gcggccgcac gtgtaggcaa agaagcctgt gtccggcctc cagaccatgt tggcccgccc 60  
attcccgcctg taaccgacga cagccttcag acgcagccac ccaccgctgg cgggagggcg 120  
gcaagtgccc ttggcagagt gggggctgca gctgaccctg gcaggcgtga aggccttgca 180  
ggaagccagg taggtggtgc gtggggcccc cgaatt 216

<210> 957  
<211> 62  
<212> DNA  
<213> Homo sapiens

<400> 957  
ccagtgggag gctcccaccc tggtagatga acagcccctg gagaactacc tggatatgga 60  
gt 62

<210> 958  
<211> 199  
<212> DNA  
<213> Homo sapiens

<400> 958  
ggattcgggc atattggaat tgctgttcct gatgtataca gtgcttgtaa aaggtttgaa 60  
gaactgggag tcaaatttgt gaagaaacct gatgatgga aaatgaaagg cctggcattt 120  
attcaagatc ctgatggcta ctggattgaa attttgaatc ctaacaaaat ggcaacctta 180  
atgtagtgtc gtgagaatt 199

<210> 959  
<211> 212  
<212> DNA  
<213> Homo sapiens

<400> 959  
gaggcggaga ggatcatgtc cgggaactgc ggggtagtag cgatctgggt taccagccg 60  
ttgtggccct tgagggtgcc acgaagggtc atctgctcag tcatggcggc ggcgagagcg 120  
tgtgtcgtc cagcgacgag gatggcactg gatggcttag agaaactagc accacaacct 180  
ctcctgccgc cgcgtcgacg cggccgcgaa tt 212

<210> 960  
<211> 177  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 79  
<223> n = A,T,C or G

<400> 960  
gacattttat gacctctccc aataggggca gaggtgagca cccctggtga aaagttaaga 60  
ctcagtgagt ataaatacnc caagaagagc tgtggcttct ttactggtg tcctcagaaa 120  
ggctgtgagc agtgttggtg gcatacctgt cacagcatct agcaaagcac ctgaatt 177

<210> 961

<211> 490  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 203, 296  
 <223> n = A,T,C or G

<400> 961  
 gggcgtcctg gtgcttacca cctggaaact ggtgaggtgg tgggagaact cctggtggac 60  
 cctagtggaa gccttccagt aatttcttga agctgagcgc tcaggtgagt agggcgacat 120  
 ctggtggccg gttgttgaag gtcattgcag agaggaagga agccgaggag gggagcctgc 180  
 agtgaggggcgc tcctgggggtt ctncggttct caccaccctt gggccacgcc gtctagtcca 240  
 cacctgagga gttggtcagg tagaaggggc ggatgaccgt gcggaagccg ttgaantgcc 300  
 ctgccgggca ggggaaggag gaggtgctct tcgagctgtt ggtgtccagg gcactgggaa 360  
 tcgcagcctt ccagccctcg aaatcggtga cgtctgccac gaagagccct tcgcagagca 420  
 tcagggcttt gttttcgtag gcaatggtgc gatctgagcc gccagacttg gtgaggccca 480  
 ggacagggag 490

<210> 962  
 <211> 159  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 53, 80, 82, 90  
 <223> n = A,T,C or G

<400> 962  
 gggtcggccc ggggtggttgc ggccacagcg cagcggcgga gagcggcgcc cancatgacg 60  
 gcgatggcgg cgcgcgggcn gnggacagan agaagccggt gtaagctcgc gggttgctcc 120  
 ggagcgggcg ggggcccggac gtcgacgcgg ccgcgaatt 159

<210> 963  
 <211> 217  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 79, 80  
 <223> n = A,T,C or G

<400> 963  
 gggtagagaa ccctgcggtc gcgctttcgg tgcccgcgag aggcgctggg gcgcccggca 60  
 ggggccgctg cgggctcenn gagagggtcg aaggtgaaga tctcaggacc ggagccccgc 120  
 cggggtcccg ggatggtgga gggggccggg gtcggggcct gcaggatggt catggtcggg 180  
 tggcagctgc gagagtgaca catggtgagc cgagcgt 217

<210> 964  
 <211> 540  
 <212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 484

<223> n = A,T,C or G

<400> 964

```
gtggcctgca aggcgcgga cagggcgagc accgagtcgt acattttgca gctcatcatc 60
cccggtgctct gcgtgacgca gtccatccac agccccttgt acatggcctg ggccgtgatg 120
atggtgtcac ccgcatagga gctcatctgc cactgcggga tggcggtgca ggccaccaga 180
cccaccagc ccagcagggc catggagaag ccagcaact gcaggcccga attggccatt 240
tccgccctca gaaaacactg ggggcgcgg gcgggagacc ctacagtaaa acaaacgaca 300
cttggggggc agccccacaa aagaaaactt gaggtggagt tttccggtca cccaaagaga 360
caaaaagggg ttgggccagg tgaatgcaaa tctgtgcacc aaactacaca caaatcgacc 420
cctccagtga agcgatggcc tcgcggcaca gggagtagga tacgccggga ggggtggttcc 480
aganaaaatt ggtggtcccc gaaggccagg cggttccctc cgggcgctct cggcgacct 540
```

<210> 965

<211> 321

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 299, 307

<223> n = A,T,C or G

<400> 965

```
gccacagtg gcttgtttcc gcagtgcgcg gccgtcagca cccaactctg gtccaccagg 60
acaccgcgc agtggaaaga gaggcgttg aagagcgaga cctgccagg ctgcgagccg 120
cgcgcgacg gggcgccata ggcttcgggg tccaagcgcg tgtcgttttg ggggagcagc 180
gccgcctctg cggcccagag ttgcgccatc agcagcgga gcagcttcgc cagagcccg 240
gcgccagagg cggcggagag gtggaggtgc ggagctctca tggccaggat ctgggagtng 300
ccgatanga gaggaggagg g                                     321
```

<210> 966

<211> 642

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 238

<223> n = A,T,C or G

<400> 966

```
ggtggacacc accctcaaga gcctgagcca gcagatcgag aacatccgga gccagaggg 60
cagccgcaag aaccccgccc gcacctgccg tgacctcaag atgtgccact ctgactggaa 120
gagtggagag tactggattg accccaacca aggtgcaac ctggatgcca tcaaagtctt 180
ctgcaacatg gagactggtg agacctgcgt gtacccact cagcccagtg tggccanaa 240
gaactggtac atcagcaaga accccaagga caagaggcat gtctggttcg gcgagagcat 300
gaccgatgga ttccagttcg agtatggcgg ccagggtcc gaccctgccg atgtggcoat 360
```





<212> DNA  
 <213> Homo sapiens

<400> 969  
 gaatgtcagg ggtggttggg gctttggctg ggtcctgggt ctctgtgtag agacctggag 60  
 gcgcttggtt cttgggggtt tccaggattc cagcctcgta gctgatgtgc atgaggttct 120  
 catccatgct ccacgggttc ttgggagtga ccgggatggg aatcccgtgt tgctttgcgt 180  
 actccatcag gtcattgcgg cccttgaacc ggtttagaa tt 222

<210> 970  
 <211> 79  
 <212> DNA  
 <213> Homo sapiens

<400> 970  
 gcagggggccg cctggccttg ctccgctcca cgaggaggcc gccaacccga gggccgcgac 60  
 acggacggga agcaacgga 79

<210> 971  
 <211> 111  
 <212> DNA  
 <213> Homo sapiens

<400> 971  
 ggaaaatgca tctaccccac ccaaccagca gcctcacttt aggctgcctt gtcccgggag 60  
 cccattcgt cagccccacg cctcctccag gatccgggag cagctcgaat t 111

<210> 972  
 <211> 609  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 571  
 <223> n = A,T,C or G

<400> 972  
 ggtggacacc accctcaaga gctgagcca gcagatcgag aacatccgga gccagaggg 60  
 cagccgcaag aaccccgccc gcacctgccg tgacctcaag atgtgccact ctgactggaa 120  
 gagtggagag tactggattg accccaacca aggtgcaac ctggatgcca tcaaagtctt 180  
 ctgcaacatg gagactggtg agacctgctg gtacccact cagcccagtg tggcccagaa 240  
 gaactggtac atcagcaaga accccaagga caagaggcat gtctggttcg gcgagagcat 300  
 gaccgatgga ttccagtctg agtatggcgg ccaggggctcc gacctgccc atgtggccat 360  
 ccagctgacc ttctgcgcc tgatgtccac cgaggcctcc cagaacatca cctaccactg 420  
 caagaacagc gtggcctaca tggaccagca gactggcaac ctcaagaagg ccctgctcct 480  
 ccagggtccc aacgagatcg agatccgcgc cgagggcaac agccgcttca cctacagcgt 540  
 cactgtcgat ggctgcacga gtcacaccgg nagcctgggg caagacagtg attgaatata 600  
 aaaccacca 609

<210> 973  
 <211> 311  
 <212> DNA  
 <213> Homo sapiens

<400> 973  
 ggggtttcca cgtagcccac aatgcccaca accaccatgg gtggtgtctc tacaatggtc 60  
 acagcctcca ccacctcctt cttgttcacc ttggatcccg gcctgtcgac ttcccgcacg 120  
 atgtgagtca tgccagcctt gtatcccagg aaggctgtga ggtggaccgg cttggacggg 180  
 tcaccccttag ggaagctctt caccttccca cgatgcctgc tgctgcgctt ccgaggcagg 240  
 aagccgaggg acccatgtct gggagcggag aactttctgt gagacatcac gcgtcgacgc 300  
 ggccgcgaat t 311

<210> 974  
 <211> 180  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 114, 127, 133, 138, 162  
 <223> n = A,T,C or G

<400> 974  
 gaggcggaga ggatcatgtc cgggaactgc ggggtagtag cgatctgggt taccagccg 60  
 ttgtggccct tgagggtgcc acgaagggtc atctgctcag tcatggcggc ggcagagcg 120  
 tgtgtcnctg cancgacnag gatggcactg gatggcttag anaaactagc accacgtcga 180

<210> 975  
 <211> 187  
 <212> DNA  
 <213> Homo sapiens

<400> 975  
 gcaccagccc cggggactat gtgctcagcg tctcagagaa ctgcgcgctc tcccactaca 60  
 tcatcaacag cagcggcccg cgcccgccgg tgccaccgtc gcccggccag cctccgcccc 120  
 gggtagagccc ctccagactc cgaataggag atcaagagtt tgattcattg cctgctttac 180  
 tggaatt 187

<210> 976  
 <211> 59  
 <212> DNA  
 <213> Homo sapiens

<400> 976  
 ctggttccgc tgcatggacc tggacgggga cggcgccctg tccatgttcg agctcgagt 59

<210> 977  
 <211> 66  
 <212> DNA  
 <213> Homo sapiens

<400> 977  
 ggtccagagc tcccaggttt ccaggttgca gtccctccag tcccagagct cccagggttt 60  
 cggttt 66

<210> 978





```

ctgcaacatg gagactggtg agacctgcgt gtaccccaact cagcccagtg tggcccanaa 240
gaactggtac atcancaaga accccaagga caagaggcat gtctgggttcg gcgagagcat 300
gaccgatgga ttccagttcg agtatggcgg ccagggctcc gaccctgccg atgtggccat 360
ccagctgacc ttctctgcgc tgatgtccac cgaggcctcc canaacatca cctaccactg 420
caagaacagc gtggcctaca tggaccanca nactggcaac c 461

```

```

<210> 986
<211> 138
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 45, 137
<223> n = A,T,C or G

```

```

<400> 986
gagcggctgc tgaaggcccg ggggccagag gtggacacct tgtangactt ctgggtcacc 60
ctgatggaca tggtagaggc aggagtggag gcaggcgggc cgaaccaggc ggagatccta 120
gaaggagcgg aggtcgnc 138

```

```

<210> 987
<211> 555
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 423
<223> n = A,T,C or G

```

```

<400> 987
gcggccgccc tttttttttt ttttttttag tggataact atattttattg tgcctgagag 60
gcaaggtagg ggaataatct caacagaagc aagtttgggg aaaatctgga gtccccagta 120
aaaagcagga aggtctctgc tgtactcatc acagaatggg agagagggct ctcaatagat 180
cattcccttt gtttctcccc tgggtcttct gagcttctcg aagttcttca ggatgatgtc 240
atataacaca gcataagcat tgcggatctc catgaccatc agccggatgt cccggtactc 300
tgcctcatcc agctcgtgca ccagctgccg ataatcaccc acatggggct gcttggctgc 360
tttagtcact gcatcaccac gctcagagaa atacttagag atttgagtgt ggaagccttc 420
tancctgggtg tggaggctgg tcatcagctc aaacaccttc tcctggacag ccaactccaaa 480
attgttacca tcctcaatcc gaggtatctg cagctgcaac caggtggtga ccaggttgag 540
ctgctcaatg acatc 555

```

```

<210> 988
<211> 318
<212> DNA
<213> Homo sapiens

```

```

<400> 988
gacggcgcgg gcgacctacg aacagctttg aggaagcccc gacagtggcg gcgtccagtg 60
cctccgaggg cggcgaccgc ggctccgcag cctctcccag ccgctccgcc cggttccggg 120
gagtcggctg ggacaaaatg gcctcccctc cccctcagg gcttctcggc cgggacgctc 180
ccacgggcga gcaagcctgc tctgccgtcg aggaggcgca gcgggcgtga ggacagtctc 240
tctcccgagc ggaaactccc tgctagcacg cggcgagggc agcgaagaag gaccocctaag 300

```

tcgacgagct cagttaca

318

<210> 989

<211> 177

<212> DNA

<213> Homo sapiens

<400> 989

```
gacattttat gacctctccc aataggggca gaggtgagca cccctgggtga aaagttaaga 60
ctcagtgagt ataaatacgc caagaagagc tgtggcttct ttcactgggtg tcctcagaaa 120
ggctgtgagc agtgttggtg gcatacctgt cacagcatct agcaaagcac ctgaatt 177
```

<210> 990

<211> 144

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 11

<223> n = A,T,C or G

<400> 990

```
gtgagcacc ntggtgaaaa gttaagactc agtgagtata aatacgccaa gaagagctgt 60
ggcttctttc actggtgtcc tcagaaaggc tgtgagcagt gttggtggca tacctgtcac 120
agcatctagc aaagcacctg aatt 144
```

<210> 991

<211> 659

<212> DNA

<213> Homo sapiens

<400> 991

```
ggtggacacc accctcaaga gcttgagcca gcagatcgag aacatccgga gcccagaggg 60
cagccgcaag aaccccgccc gcacctgccg tgacctcaag atgtgccact ctgactggaa 120
gagtggagag tactggattg accccaacca aggctgcaac ctggatgcca tcaaagtctt 180
ctgcaacatg gagactgggtg agacctgcgt gtacccact cagcccagtg tggcccagaa 240
gaactgggtac atcagcaaga accccaagga caagaggcat gtctggttcg gcgagagcat 300
gaccgatgga ttccagttcg agtatggcgg ccagggtcc gacctgccg atgtggccat 360
ccagctgacc ttcttgccgc tgatgtccac cgaggcctcc cagaacatca cctaccactg 420
caagaacagc gtggcctaca tggaccagca gactggcaac ctcaagaagg ccttgctcct 480
ccagggtcc aacgagatcg agatccgcgc cgagggcaac agccgcttca cctacagcgt 540
cactgtcgat ggctgcacga gtcacaccgg agcctggggc aagacagtga ttgaatacaa 600
aaccaccaag acctcccgcc tgcccatcat cgatgtggcc cccttgagcg ttggtgccc 659
```

<210> 992

<211> 226

<212> DNA

<213> Homo sapiens

<400> 992

```
tccgctgcac tgggtttgcc ggattcttgg gcttcccaca tactgtttca cattcaggaa 60
gtttatctcc aacagoccta tttatccact gcttcttctc atttaagggtg tatactccat 120
ctccttctgt gcgcagtttg tagtagttct tacactggta gcgaaccgag tgctccacat 180
```

agccatgtgc aatctcgggg ggcttcgggc agccgtcatc tgcgat

226

<210> 993

<211> 160

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 8, 9, 15, 37, 41, 85, 87

<223> n = A,T,C or G

<400> 993

ctcgtgtnnng agcgnctgct gaaggcccgg gggccanagg nggacacctt gtacgacttc 60  
tgggtcaccc tgatggacat ggtanangct ggagtggagg caggcggggc gaaccaggcg 120  
gagatcctag aaggagcggg ggtcgacgcg gccgcgaatt 160

<210> 994

<211> 622

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 1, 9

<223> n = A,T,C or G

<400> 994

nagcctganc cagcagatcg agaacatccg gagcccagag ggcagccgca agaacccccg 60  
ccgcacctgc cgtgacctca agatgtgcc aatctgactgg aagagtggag agtactggat 120  
tgaccccaac caaggctgca acctggatgc catcaaagtc ttctgcaaca tggagactgg 180  
tgagacctgc gtgtacccca ctacagcccag tgtggcccag aagaactgg acatcagcaa 240  
gaaccccaag gacaagaggc atgtctggtt cggcgagagc atgaccgatg gattccagtt 300  
cgagtatggc ggccagggct ccgacctgc cgatgtggcc atccagctga ccttcctgcg 360  
cctgatgtcc accgaggcct ccagaaacat cacctaccac tgcaagaaca gcgtggccta 420  
catggaccag cagactggca acctcaagaa ggccctgctc ctccagggct ccaacgagat 480  
cgagatccgc gccgagggca acagccgctt cacctacagc gtcactgtcg atggctgcac 540  
gagtcacacc ggagcctggg gcaagacagt gattgaatac aaaaccacca agacctcccg 600  
cctgcccata atcgatgtgg cc 622

<210> 995

<211> 158

<212> DNA

<213> Homo sapiens

<400> 995

aataagattt tgccagaggg gaaggctcga ttgtgctgtt aataacttaa taatgacaaa 60  
ataatgaggt gtatatgctt tacatgcaat gttatatagt gaattgttct gattcttaat 120  
tgtaagtctg gtttttttat ctgtaagata attgtgtg 158

<210> 996

<211> 295

<212> DNA

<213> Homo sapiens

<400> 996

```
cggccgcgtc gactctcgga gcggagacgg caaatggcgg acttcgacac ctacgacgat 60
cgggcctaca gcagcttcgg cggcggcaga gggccccgcg gcagtgcctg tggccatggt 120
tcccgtagcc agaaggagtt gcccacagag cccccctaca cagcatacgt aggaaatcta 180
cctttcaata cggttcaggg cgacatagat gctatcttta aggatctcag cataaggagt 240
gtacggctag tcagagacaa agacacagat aaatttaaag gattctgcta tgtag      295
```

<210> 997

<211> 125

<212> DNA

<213> Homo sapiens

<400> 997

```
cggccgccct tttttttttt ttttttaagg ttttttggt gtaagtttat tcaatgcaaa 60
agaatcctct ccaattttac tgagggtggc gaccacgtcc acgaccaa at ccgcctctaa 120
actgg      125
```

<210> 998

<211> 152

<212> DNA

<213> Homo sapiens

<400> 998

```
gagctgatgc gggaaccggg cccactcgtg taggagcggc tgctgaaggc ccgggggcca 60
gaggtggaca ccttgtagga cttctgggtc accctgatgg acatggtaga ggctggagtg 120
gaggcaggcg ggccgaacca ggccgagatc ct      152
```

<210> 999

<211> 119

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 23, 29, 54, 76, 77

<223> n = A,T,C or G

<400> 999

```
taaagcaacc actaaaccac ctncagcang agaaagcagc agagagctct tcanacagct 60
cagactctga cagctnngag gatgatgaag ctctttctaa gccagctggt accaccaag 119
```

<210> 1000

<211> 209

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 6, 7

<223> n = A,T,C or G

<400> 1000

```
ccctcnngag gcggagagga tcattgtccg gaactgcggg gtagtagcga tctgggttac 60
```



```

ccagccgttg tggcccttga ggggtgccag aagggtcac tgctcagtc tggcggcggc 120
gagagcgtgt gtcgctgcag cgacgaggat ggcactggat ggcttagaga aactagcacc 180
acaacctctc ctgcgctcgac gcggccgcg 209

```

```

<210> 1001
<211> 390
<212> DNA
<213> Homo sapiens

```

```

<400> 1001
gtggacacca ccctcaagag cctgagccag cagatcgaga acatccggag cccagagggc 60
agccgcaaga accccgccc cactgcccgt gacctcaaga tgtgccactc tgactggaag 120
agtggagagt actggattga cccaaccaa ggctgcaacc tggatgccat caaagtcttc 180
tgcaacatgg agactggtga gacctgcgtg taccctactc agcccagtggt ggcccagaag 240
aactggtaca tcagcaagaa cccaaggac aagaggcatg tctggttcgg cgagagcatg 300
accgatggat tccagttcga gtatggcggc cagggctccg accctgccga tgtggccatc 360
cagctgacct tctgcgcct gatgtccacc 390

```

```

<210> 1002
<211> 613
<212> DNA
<213> Homo sapiens

```

```

<400> 1002
gtggacacca ccctcaagag cctgagccag cagatcgaga acatccggag cccagagggc 60
agccgcaaga accccgccc cactgcccgt gacctcaaga tgtgccactc tgactggaag 120
agtggagagt actggattga cccaaccaa ggctgcaacc tggatgccat caaagtcttc 180
tgcaacatgg agactggtga gacctgcgtg taccctactc agcccagtggt ggcccagaag 240
aactggtaca tcagcaagaa cccaaggac aagaggcatg tctggttcgg cgagagcatg 300
accgatggat tccagttcga gtatggcggc cagggctccg accctgccga tgtggccatc 360
cagctgacct tctgcgcct gatgtccacc gaggcctccc agaacatcac ctaccactgc 420
aagaacagcg tggcctacat ggaccagcag actggcaacc tcaagaaggc cctgctcctc 480
cagggctcca acgagatcga gatccgcgcc gagggcaaca gccgcttcac ctacagcgtc 540
actgtcgtat gctgcacgag tcacaccgga gcctggggca agacagtgat tgaatacaaa 600
accaccaaga cct 613

```

```

<210> 1003
<211> 639
<212> DNA
<213> Homo sapiens

```

```

<400> 1003
gtggacacca ccctcaagag cctgagccag cagatcgaga acatccggag cccagagggc 60
agccgcaaga accccgccc cactgcccgt gacctcaaga tgtgccactc tgactggaag 120
agtggagagt actggattga cccaaccaa ggctgcaacc tggatgccat caaagtcttc 180
tgcaacatgg agactggtga gacctgcgtg taccctactc agcccagtggt ggcccagaag 240
aactggtaca tcagcaagaa cccaaggac aagaggcatg tctggttcgg cgagagcatg 300
accgatggat tccagttcga gtatggcggc cagggctccg accctgccga tgtggccatc 360
cagctgacct tctgcgcct gatgtccacc gaggcctccc agaacatcac ctaccactgc 420
aagaacagcg tggcctacat ggaccagcag actggcaacc tcaagaaggc cctgctcctc 480
cagggctcca acgagatcga gatccgcgcc gagggcaaca gccgcttcac ctacagcgtc 540
actgtcgtat gctgcacgag tcacaccgga gcctggggca agacagtgat tgaatacaaa 600
accaccaaga cctcccgcc gcccatcac gatgtggcc 639

```

```
<210> 1007
<211> 575
<212> DNA
<213> Homo sapiens
```

<220>  
 <221> misc\_feature  
 <222> 248, 372  
 <223> n = A,T,C or G

<400> 1007  
 gtggacacca ccctcaagag cctgagccag cagatcgaga acatccggag cccagagggc 60  
 agccgcaaga accccgcccg cacctgccgt gacctcaaga tgtgccactc tgactggaag 120  
 agtggagagt actggattga ccccaaccaa ggctgcaacc tggatgccat caaagtcttc 180  
 tgcaacatgg agactggtga gacctgcgtg taccctactc agcccagtgt ggcccagaag 240  
 aactggtnc a tcagcaagaa ccccaaggac aagaggcatg tctgggttcgg cgagagcatg 300  
 accgatggat tccagttcga gtatggcggc cagggctccg accctgccga tgtggccatc 360  
 cagctgacct tncctgcgcct gatgtccacc gaggcctccc agaacatcac ctaccactgc 420  
 aagaacagcg tggcctacat ggaccagcag actggcaacc tcaagaaggc cctgctcctc 480  
 cagggctcca acgagatcga gatccgcgcc gagggcaaca gccgcttcac ctacagcgtc 540  
 actgtcgatg gctgcacgag tcacaccgga gcctg 575

<210> 1008  
 <211> 62  
 <212> DNA  
 <213> Homo sapiens

<400> 1008  
 cgatggagcg tgggtaggga ggggtccacag tgtccactcg ccgtgtgcga aggttgactc 60  
 gg 62

<210> 1009  
 <211> 180  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 154  
 <223> n = A,T,C or G

<400> 1009  
 gagctgatgc gggaaccggg cccactcgtg taggagcggc tgctgaaggc ccgggggcca 60  
 gaggtggaca cctttagga cttctgggtc accctgatgg acatggtaga ggcaggagtg 120  
 gaggcaggcg ggccgaacca ggcggagatc ctanaaggag cggaggtcga cgcggcccg 180

<210> 1010  
 <211> 169  
 <212> DNA  
 <213> Homo sapiens

<400> 1010  
 gaggcggcac aggtcacgca tggccagcac ggcagccatg gcgctgcgct cgctcatgtt 60  
 tctcgccagg taggtctggg ccagggtctt gagtttgaag ctgctggccc cgggcacacg 120  
 ctcccggatg agaggcaggg cagccaggaa gcccgagatg gcctcctgg 169

<210> 1011

<211> 170  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 78, 79  
 <223> n = A,T,C or G

<400> 1011  
 gagctgatgc gggaaccggg cccactcgtg taggagcggc tgctgaaggc ccggggggcca 60  
 gaggtggaca ctttgtanna cttctgggtc accctgatgg acatggtaga ggctggagtg 120  
 gaggcaggcg ggccgaacca ggcggagatc ctagaaggag cggaggtcga 170

<210> 1012  
 <211> 344  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 231, 235, 238, 245, 246, 251, 255, 263, 264, 270, 276, 302,  
 313, 316, 317, 325  
 <223> n = A,T,C or G

<400> 1012  
 gtggacacca ccctcaagag cctgagccag cagatcgaga acatccggag cccagagggc 60  
 agccgcaaga accccgcccg cacctgccgt gacctcaaga tgtgccactc tgactggaag 120  
 agtggagagt actggattga cccaaccaa ggctgcaacc tggatgccat caaagtcttc 180  
 tgcaacatgg agactgggtg gacctgcgtg taccocactc agcccagtgg nccanaanaa 240  
 ctggnncatc ngcangaacc ccnnggacan gaggcntgtc tggttcggcg agagcatgac 300  
 cnatggattc canttnnagt atggnngcca gggtccgac cctg 344

<210> 1013  
 <211> 157  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 21, 22, 127, 136, 137  
 <223> n = A,T,C or G

<400> 1013  
 atagaacccc gccgcacct nncgtgacct caagatgtgc cactctgact ggaagagtgg 60  
 agagtactgg attgaccca accaaggctg caacctggat gccatcaaag tcttctgcaa 120  
 catgganact ggtganncct gcgtgtaccc cactcag 157

<210> 1014  
 <211> 621  
 <212> DNA  
 <213> Homo sapiens

<400> 1014











&lt;400&gt; 1029

```
gcgtnnatgt agttcttgag cacctcggga atgggcccct cggtcacggc tggcaccgcc 60
tggg                                           64
```

&lt;210&gt; 1030

&lt;211&gt; 531

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1030

```
cctgtcagag tggcactggt agaagttcca ggaaccctga actgtaaggg ttcttcatca 60
gtgccaacag gatgacatga aatgatgtac tcagaagtgt cctggaatgg ggcccatgag 120
atggttgtct gagagagagc ttcttgtcct acattcggcg ggtatgggtct tggcctatgc 180
cttatggggg tggccgttgt gggcgggtgtg gtccgcctaa aaccatgttc ctcaaagatc 240
atgtgttgcc caacactggg ttgctgacca gaagtgccag gaagctgaat accatttcca 300
gtgtcatacc caggggtgggt gacgaaaggg gtcttttgaa ctgtggaagg aacatccaag 360
atctctggtc catgaagatt ggggtgtgga agggttacca gttggggaag ctcgctctgtc 420
tttttccttc caatcagggg ctcgctcttc tgattattct tcagggcaat gacataaatt 480
gtatattcgg ttcccgggtc caggccagta atagtagcct ctgtgacacc a           531
```

&lt;210&gt; 1031

&lt;211&gt; 518

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 443

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 1031

```
cctgggtggt ggagcgaatg ggccgattcc accggatcct ggagcctggt ttgaacatcc 60
tcatccctgt gttagaccgg atccgatatg tgcagagtct caaggaaatt gtcacatcaac 120
tgcctgagca gtcggctgtg actctcgaca atgtaactct gcaaatcgat ggagtccttt 180
acctgcgcat catggaccct tacaaggcaa gctacgggtgt ggaggaccct gagtatgccg 240
tcaccagct agctcaaaca accatgagat cagagctcgg caaactctct ctggacaaaag 300
tcttccggga acgggagtcct ctgaatgccca gcattgtgga tgccatcaac caagctgctg 360
actgctgggg tatccgctgc ctccgttatg agatcaagga tatccatgtg ccaccccggg 420
tgaaaagagtc tatgcagatg cangtggagg cagagcggcg gaaacgggcc acagttctag 480
agtctgaggg gacccgagag tcggccatca atgtggca           518
```

&lt;210&gt; 1032

&lt;211&gt; 116

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1032

```
aaatatattat gtggaattaa ttaaaggtag ttggctatat cgctatcatt tcattctttt 60
gacattatgt gaatatatta ctggaaaata agactaataa attgttaaaa gttttt      116
```

&lt;210&gt; 1033

&lt;211&gt; 241

&lt;212&gt; DNA

<213> Homo sapiens

<400> 1033

```
caagggtcat gatggcagga gtaatcagag gtgttcttgt gttgtgataa ggggtggagag 60
gttaaaggag ccacttatta gtaatgttga tagtagaatg atggctaggg tgacttcata 120
tgagattggt tgggctactg ctgcgagtgc gccgatcagg gcgtagtttg agtttgatgc 180
tcaccctgat cagaggattg agtaaaccgc taggctagag gtggctagaa taaataggag 240
g 241
```

<210> 1034

<211> 234

<212> DNA

<213> Homo sapiens

<400> 1034

```
ccacagctgg gcgcttcacc cagtgggtact ttgggtgccta ctccattgtg gcgggcgtgt 60
ttgtgtgcct gctggagtac ccccggggga agaggaagaa gggctccacc atggagcgct 120
ggggacagaa gcacatgacc gccgtggtga agctgttcgg gccctttacc aggaattact 180
atgttcgggc cgtcctgcat ctctgctct cgggtgccgc cggttctctg ctgg 234
```

<210> 1035

<211> 434

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 39, 42, 48, 113, 135, 137, 151, 185, 219, 228, 250, 254,  
268, 271, 275, 307, 344, 355, 358, 369, 376, 404, 409, 416,  
427

<223> n = A,T,C or G

<400> 1035

```
gtacaagctt tttttttttt tttttttttt ttttttttng gntacggnag cactttttatt 60
tttccttaca caatgacgtg ttgctggggc ctaatgttct cacataacag tanaaaacca 120
aaatttggtg tcatntnttc aaagaatcga naattgctga caaaaaaac cttacataaa 180
ttaanaatga atacatttac aggcgtaaat gcaaacgnt tccaactnaa agcaagtaac 240
agcccacggn gttntggcca aagacatnag ntaanaaagg aaactgggtc ctacggcttg 300
gacttttcaa ccctgacaga ccgcgaagac aaaacaactg gttnttgcca gcctntanag 360
aatcccana acactnagcc ctgacacgtt aataccctgc acanatcana ggctgntggc 420
cacacanact cacc 434
```

<210> 1036

<211> 294

<212> DNA

<213> Homo sapiens

<400> 1036

```
aaagccatgg gaaccagat caccagatcc ggagcctgac tctagcccct gagccacctg 60
ttgccctaac accctgtctg actctctccc gctgcagcag ccagtcctc ctgcactcca 120
gcaactccag coatcagtca tcttccagat ccttggaag tccagccaac tcttctcca 180
gcctccacag ccttggtca gtgtccctgt gtacaagacc cagtgacttc caggctccca 240
gaaacccac cctaaccatg ggccaacca gaacaccca ctctccacca ctgg 294
```





```

aggaacatgg ttttaggcgg accacaccgg cccacaacgg ncacccccat aaaggcatag 480
gccaaagacc ataccgcggc aatgtaggac aagaaagct 519

```

```

<210> 1043
<211> 294
<212> DNA
<213> Homo sapiens

```

```

<400> 1043
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ttgccagctc atatatataa tcacagagag tgtggagaaa taagtcattc aaaatctttt 180
gcagaatctc agggaaaccgt aaaatgcacc ggcctagttt ccattccttc tcatgatcca 240
aaagaatctt ggttttctcg gcagcttttt ggagcatttc ttcattcaata ttgg 294

```

```

<210> 1044
<211> 384
<212> DNA
<213> Homo sapiens

```

```

<400> 1044
ccaggcgctc cttgtcggca tcagggaggg tggccttgaa ctgctcatgg gctgtggtca 60
gtccctggat ctctcaaatg gtgtgcacaa tgaagggtgc ctgcagggtc tccatggccc 120
cctccatcca gttgttgaag ggtgcagccc gcttggcata ctccaagtac agctggtcaa 180
tggctctccag cagtttctcg gtccgctcca gagcttccct tcgcttctga gttagggtccc 240
ccagattgtc ccaactggtc cagatctttt ggcaacgggc gttgacactg ggtgagtcac 300
aatagtccag ctcatcgagc tctgtgtgca tggcggcaat ctgctccaca cggtcctggt 360
gggcagccag gtcactctcg aagg 384

```

```

<210> 1045
<211> 456
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 118, 119
<223> n = A,T,C or G

```

```

<400> 1045
aaaactaatg ttacaaatct gtattatcac ttgtatataa atagtatata gctgatcatt 60
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aaaatccaag tgtcctcctc caccactcac gctggtgac actgtgctct ctgccagctg 180
cgtggagtga cgggaggagg gaatcactgt gtgtgcgaga gtgcttcaga ctcaatttcc 240
aaaataattt tcaccctctc aagcatgtaa atatacaaag atggatcctt catagaaatt 300
aaaaaatcaa tttgagctca ttctgaatac agaacaagta tggcacagat ggaagtcctg 360
ccacgtttcc tttaatgatg ctgactcttg tatcacacag gccagcatga agtttcttac 420
tcagacttta caggcathtt ccgtaattca atcagt 456

```

```

<210> 1046
<211> 136
<212> DNA
<213> Homo sapiens

```

<220>  
 <221> misc\_feature  
 <222> 3, 27, 80, 97, 104  
 <223> n = A,T,C or G

<400> 1046  
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 catggctctg aaaggtggcn gggcagaagg aaccctncgt tcanctaaaa gtgaggagtc 120  
 tcttacatct ctccat 136

<210> 1047  
 <211> 453  
 <212> DNA  
 <213> Homo sapiens

<400> 1047  
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 tctccgcatt tatattaaaa attcacacac aaatgaaaat ggaaaaactg ccaatacctg 180  
 atttctgtcc cctatttttc cactcgcaat catatactta ggtacctttt gaccccatgg 240  
 aaaaaaata tctaacgttc agaactacca ataacaggaa gaagagaaat tttttttttt 300  
 tttttgggaa tgaaatgttt cccatcatag tggattctta agcacgttct ccacgtatgc 360  
 ggcgtgctag ctggatgtct tttggcataa ttgttacacg tttggcatgg atagcacaca 420  
 ggttggtgtc ttcaaaaagg ccaaccagat agg 453

<210> 1048  
 <211> 219  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 13  
 <223> n = A,T,C or G

<400> 1048  
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 gaaagatcct catgaattaa atagttgatg caatttttaa cgtaattga tataaaaaaa 180  
 aacaacaaaa ttaggcttgt aaaactgact ttttcatta 219

<210> 1049  
 <211> 2465  
 <212> DNA  
 <213> Homo sapiens

<400> 1049  
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 gtggtaaaatt agacaacact aacgaatata atagtaatga tggttaagaaa ttaccccagg 180  
 gtgaatcacg aagttacgaa gtcattgggaa gtatggaaga aaccttatgc aatatagatg 240  
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 gagaggatga atttgtcaaa gaaatgagag aggaaagaaa atttcagaaa ttgaagaata 360  
 aagaggaggt tttaaaagcc tccagagaag aaaaagtgtt gatggatgaa ggagcagtac 420



taacaggttg attaaaattg atgcagccac cgggattcca gtgacaacat ggagattcac 780  
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 ggaaccaact ttgttttaac caaactttgt ttggttacag ttttcagggg agcgtttctt 3060  
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<210> 1051

<211> 1745

<212> DNA

<213> Homo sapiens

<400> 1051

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 cgtgcgccac tctggcgggc tcaacctggc gccgcagaac ttcgtcagcc ccccgagta 180  
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<210> 1052

<211> 1104

<212> DNA

<213> Homo sapiens

<400> 1052

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<210> 1053

<211> 480

<212> DNA

<213> Homo sapiens

<400> 1053

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caaaccagtg tgccgtgcca gccaaggaca gggaggactg cggctacccc catgtcaccc 180
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tctcagcttt tctgtccctt tgctcccggc aagcgcttct gctgaaagtt catatctgga 420
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<210> 1054

<211> 1078

<212> DNA

<213> Homo sapiens

<400> 1054

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<210> 1055

<211> 2872

<212> DNA

<213> Homo sapiens

<400> 1055

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tcaggcctcg ttgaagaatc tacgacctac cacagcagcc cgggctcaac tcaaacaatg 600
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&lt;210&gt; 1056

&lt;211&gt; 3311

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1056

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tatttacaag tacgcaatct gagactaaga tattgttata attctcctat tgaagacaag 180
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accggcacac	agaccccaac	cacgacaccc	atcaccacca	ccactacggt	gaccccaacc	10380
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<210> 1059  
 <211> 440  
 <212> PRT  
 <213> Homo sapiens

<400> 1059  
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Glu Asn Leu Thr Phe Lys Leu Glu Val Asn Glu Leu Ser Gly Lys Leu  
                     20                    25                    30

Asp Asn Thr Asn Glu Tyr Asn Ser Asn Asp Gly Lys Lys Leu Pro Gln  
                     35                    40                    45

Gly Glu Ser Arg Ser Tyr Glu Val Met Gly Ser Met Glu Glu Thr Leu  
                     50                    55                    60



Thr	Thr	Phe	Ile	Asp	Ser	Val	Glu	Asp	Ser	Glu	Ser	Glu	Glu	Glu	Glu
		355					360					365			
Glu	Gly	Lys	Ser	Ser	Glu	Thr	Gly	Lys	Val	Lys	Thr	Thr	Ser	Leu	Thr
	370					375					380				
Glu	Lys	Lys	Ala	Ser	Arg	Arg	Gln	Lys	Glu	Ile	Pro	Phe	Ser	Tyr	Leu
385					390					395					400
Val	Gly	Asp	Ser	Gly	Lys	Lys	Lys	Leu	Val	Lys	His	Gln	Val	Val	His
				405					410					415	
Lys	Thr	Gln	Glu	Glu	Glu	Glu	Thr	Ala	Val	Pro	Thr	Ser	Gln	Gly	Thr
			420					425					430		
Gly	Thr	Pro	Cys	Leu	Thr	Leu	Cys								
		435					440								
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<212> PRT															
<213> Homo sapiens															
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Trp	Met	Ala	Ala	Cys	Met	Leu	Ala	Ser	Lys	Gly	Lys	Thr	Met	Ala	Asp
			20					25					30		
Ser	Ser	Tyr	Gln	Pro	Glu	Val	Leu	Asn	Ile	Leu	Ser	Phe	Leu	Arg	Met
		35					40					45			
Lys	Asn	Arg	Asn	Ser	Ala	Ser	Gln	Val	Ala	Ser	Ser	Leu	Glu	Asn	Met
	50					55					60				
Asp	Met	Asn	Pro	Glu	Cys	Phe	Val	Ser	Pro	Arg	Cys	Ala	Lys	Arg	His
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Lys	Ser	Lys	Gln	Leu	Ala	Ala	Arg	Ile	Leu	Glu	Ala	His	Gln	Asn	Val
				85					90					95	
Ala	Gln	Met	Pro	Leu	Val	Glu	Ala	Lys	Leu	Arg	Phe	Ile	Gln	Ala	Trp
			100					105					110		
Gln	Ser	Leu	Pro	Glu	Phe	Gly	Leu	Thr	Tyr	Tyr	Leu	Val	Arg	Phe	Lys
		115					120					125			
Gly	Ser	Lys	Lys	Asp	Asp	Ile	Leu	Gly	Val	Ser	Tyr	Asn	Arg	Leu	Ile
	130					135					140				
Lys	Ile	Asp	Ala	Ala	Thr	Gly	Ile	Pro	Val	Thr	Thr	Trp	Arg	Phe	Thr





Leu Leu Gln Val Ala Thr Gly Ile Leu Gly Ala Val Phe Lys Ser Lys  
100 105 110

Ser Asp Arg Ile Val Asn Glu Thr Leu Tyr Glu Asn Thr Lys Leu Leu  
115 120 125

Ser Ala Thr Gly Glu Ser Glu Lys Gln Phe Gln Glu Ala Ile Ile Val  
130 135 140

Phe Gln Glu Glu Phe Lys Cys Cys Gly Leu Val Asn Gly Ala Ala Asp  
145 150 155 160

Trp Gly Asn Asn Phe Gln His Tyr Pro Glu Leu Cys Ala Cys Leu Asp  
165 170 175

Lys Gln Arg Pro Cys Gln Ser Tyr Asn Gly Lys Gln Val Tyr Lys Glu  
180 185 190

Thr Cys Ile Ser Phe Ile Lys Asp Phe Leu Ala Lys Asn Leu Ile Ile  
195 200 205

Val Ile Gly Ile Ser Phe Gly Leu Ala Val Ile Glu Ile Leu Gly Leu  
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Val Phe Ser Met Val Leu Tyr Cys Gln Ile Gly Asn Lys  
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<210> 1063

<211> 80

<212> PRT

<213> Homo sapiens

<400> 1063

Met Ala Ala Arg Ala Leu Cys Met Leu Gly Leu Val Leu Ala Leu Leu  
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Ser Ser Ser Ser Ala Glu Glu Tyr Val Gly Leu Ser Ala Asn Gln Cys  
20 25 30

Ala Val Pro Ala Lys Asp Arg Val Asp Cys Gly Tyr Pro His Val Thr  
35 40 45

Pro Lys Glu Cys Asn Asn Arg Gly Cys Cys Phe Asp Ser Arg Ile Pro  
50 55 60

Gly Val Pro Trp Cys Phe Lys Pro Leu Gln Glu Ala Glu Cys Thr Phe  
65 70 75 80

<210> 1064

<211> 323

<212> PRT





Phe Phe Asp Leu Ser Ile Arg Cys Gly Leu Asp Arg Phe Lys Val Tyr  
 275 280 285

Ala Asn Gly Gln His Leu Phe Asp Phe Ala His Arg Leu Ser Ala Phe  
 290 295 300

Gln Arg Val Asp Thr Leu Glu Ile Gln Gly Asp Val Thr Leu Ser Tyr  
 305 310 315 320

Val Gln Ile

<210> 1065

<211> 957

<212> PRT

<213> Homo sapiens

<400> 1065

Arg Asn Arg Pro His Thr Thr Ala Phe Pro Gly Ser Thr Thr Met Pro  
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Gly Val Ser Gln Glu Ser Thr Ala Ser His Ser Ser Pro Gly Ser Thr  
 20 25 30

Asp Thr Thr Leu Ser Pro Gly Ser Thr Thr Ala Ser Ser Leu Gly Pro  
 35 40 45

Glu Ser Thr Thr Phe His Ser Gly Pro Gly Ser Thr Glu Thr Thr Leu  
 50 55 60

Leu Pro Asp Asn Thr Thr Ala Ser Gly Leu Leu Glu Ala Ser Thr Pro  
 65 70 75 80

Val His Ser Ser Thr Gly Ser Pro His Thr Thr Leu Ser Pro Ala Gly  
 85 90 95

Ser Thr Thr Arg Gln Gly Glu Ser Thr Thr Phe Gln Ser Trp Pro Asn  
 100 105 110

Ser Lys Asp Thr Thr Pro Ala Pro Pro Thr Thr Thr Ser Ala Phe Val  
 115 120 125

Glu Leu Ser Thr Thr Ser His Gly Ser Pro Ser Ser Thr Pro Thr Thr  
 130 135 140

His Phe Ser Ala Ser Ser Thr Thr Leu Gly Arg Ser Glu Glu Ser Thr  
 145 150 155 160

Thr Val His Ser Ser Pro Val Ala Thr Ala Thr Thr Pro Ser Pro Ala  
 165 170 175

Arg Ser Thr Thr Ser Gly Leu Val Glu Glu Ser Thr Thr Tyr His Ser  
 180 185 190

Ser	Pro	Gly	Ser	Thr	Gln	Thr	Met	His	Phe	Pro	Glu	Ser	Asp	Thr	Thr
		195					200					205			
Ser	Gly	Arg	Gly	Glu	Glu	Ser	Thr	Thr	Ser	His	Ser	Ser	Thr	Thr	His
	210					215					220				
Thr	Ile	Ser	Ser	Ala	Pro	Ser	Thr	Thr	Ser	Ala	Leu	Val	Glu	Glu	Pro
225					230					235					240
Thr	Ser	Tyr	His	Ser	Ser	Pro	Gly	Ser	Thr	Ala	Thr	Thr	His	Phe	Pro
				245					250					255	
Asp	Ser	Ser	Thr	Thr	Ser	Gly	Arg	Ser	Glu	Glu	Ser	Thr	Ala	Ser	His
			260				265						270		
Ser	Asn	Gln	Asp	Ala	Thr	Gly	Thr	Ile	Val	Leu	Pro	Ala	Arg	Ser	Thr
	275					280						285			
Thr	Ser	Val	Leu	Leu	Gly	Glu	Ser	Thr	Thr	Ser	Pro	Ile	Ser	Ser	Gly
	290				295						300				
Ser	Met	Glu	Thr	Thr	Ala	Leu	Pro	Gly	Ser	Thr	Thr	Thr	Pro	Gly	Leu
305					310					315					320
Ser	Glu	Lys	Ser	Thr	Thr	Phe	His	Ser	Ser	Pro	Arg	Ser	Pro	Ala	Thr
				325					330					335	
Thr	Leu	Ser	Pro	Ala	Ser	Thr	Thr	Ser	Ser	Gly	Val	Ser	Glu	Glu	Ser
			340					345					350		
Thr	Thr	Ser	His	Ser	Arg	Pro	Gly	Ser	Thr	His	Thr	Thr	Ala	Phe	Pro
		355					360					365			
Asp	Ser	Thr	Thr	Thr	Pro	Gly	Leu	Ser	Arg	His	Ser	Thr	Thr	Ser	His
	370					375					380				
Ser	Ser	Pro	Gly	Ser	Thr	Asp	Thr	Thr	Leu	Leu	Pro	Ala	Ser	Thr	Thr
385					390					395					400
Thr	Ser	Gly	Pro	Ser	Gln	Glu	Ser	Thr	Thr	Ser	His	Ser	Ser	Pro	Gly
				405					410					415	
Ser	Thr	Asp	Thr	Ala	Leu	Ser	Pro	Gly	Ser	Thr	Thr	Ala	Leu	Ser	Phe
			420					425					430		
Gly	Gln	Glu	Ser	Thr	Thr	Phe	His	Ser	Ser	Pro	Gly	Ser	Thr	His	Thr
		435					440					445			
Thr	Leu	Phe	Pro	Asp	Ser	Thr	Thr	Ser	Ser	Gly	Ile	Val	Glu	Ala	Ser
	450					455					460				
Thr	Arg	Val	His	Ser	Ser	Thr	Gly	Ser	Pro	Arg	Thr	Thr	Leu	Ser	Pro
465					470					475					480



Glu Ser Thr Pro Ser Arg Leu Ser Pro Ser Ser Thr Glu Thr Thr Thr  
 770 775 780  
 Leu Pro Gly Ser Pro Thr Thr Pro Ser Leu Ser Glu Lys Ser Thr Thr  
 785 790 795 800  
 Phe Tyr Thr Ser Pro Arg Ser Pro Asp Ala Thr Leu Ser Pro Ala Thr  
 805 810 815  
 Thr Thr Ser Ser Gly Val Ser Glu Glu Ser Ser Thr Ser His Ser Gln  
 820 825 830  
 Pro Gly Ser Thr His Thr Thr Ala Phe Pro Asp Ser Thr Thr Thr Ser  
 835 840 845  
 Gly Leu Ser Gln Glu Pro Lys Thr Ser His Ser Ser Gln Gly Ser Thr  
 850 855 860  
 Glu Ala Thr Leu Ser Pro Gly Ser Thr Thr Ala Ser Ser Leu Gly Gln  
 865 870 875 880  
 Gln Ser Thr Thr Phe His Ser Ser Pro Gly Asp Thr Glu Thr Thr Leu  
 885 890 895  
 Leu Pro Asp Asp Thr Ile Thr Ser Gly Leu Val Glu Ala Ser Thr Pro  
 900 905 910  
 Thr His Ser Ser Thr Gly Ser Leu His Thr Thr Leu Thr Pro Ala Ser  
 915 920 925  
 Ser Thr Ser Ala Gly Leu Gln Glu Glu Ser Thr Thr Phe Gln Ser Trp  
 930 935 940  
 Pro Ser Ser Ser Asp Thr Thr Pro Ser Pro Pro Gly Pro  
 945 950 955

<210> 1066

<211> 914

<212> PRT

<213> Homo sapiens

<400> 1066

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Glu Gly Ala Leu Ser Asn Ser Leu Ile Gln Leu Asn Asn Asn Gly Tyr  
 20 25 30

Glu Gly Ile Val Val Ala Ile Asp Pro Asn Val Pro Glu Asp Glu Thr  
 35 40 45

Leu Ile Gln Gln Ile Lys Asp Met Val Thr Gln Ala Ser Leu Tyr Leu

50		55		60
Phe 65	Glu Ala Thr Gly Lys Arg Phe Tyr Phe Lys Asn Val Ala Ile Leu 80			
		70		75
Ile 85	Pro Glu Thr Trp Lys Thr Lys Ala Asp Tyr Val Arg Pro Lys Leu 95			
		85		90
Glu 100	Thr Tyr Lys Asn Ala Asp Val Leu Val Ala Glu Ser Thr Pro Pro 110			
		100		105
Gly 115	Asn Asp Glu Pro Tyr Thr Glu Gln Met Gly Asn Cys Gly Glu Lys 125			
		115		120
Gly 130	Glu Arg Ile His Leu Thr Pro Asp Phe Ile Ala Gly Lys Lys Leu 140			
		130		135
Ala 145	Glu Tyr Gly Pro Gln Gly Lys Ala Phe Val His Glu Trp Ala His 160			
		145		150
Leu 165	Arg Trp Gly Val Phe Asp Glu Tyr Asn Asn Asp Glu Lys Phe Tyr 175			
		165		170
Leu 180	Ser Asn Gly Arg Ile Gln Ala Val Arg Cys Ser Ala Gly Ile Thr 190			
		180		185
Gly 195	Thr Asn Val Val Lys Lys Cys Gln Gly Gly Ser Cys Tyr Thr Lys 205			
		195		200
Arg 210	Cys Thr Phe Asn Lys Val Thr Gly Leu Tyr Glu Lys Gly Cys Glu 220			
		210		215
Phe 225	Val Leu Gln Ser Arg Gln Thr Glu Lys Ala Ser Ile Met Phe Ala 240			
		225		230
Gln 245	His Val Asp Ser Ile Val Glu Phe Cys Thr Glu Gln Asn His Asn 255			
		245		250
Lys 260	Glu Ala Pro Asn Lys Gln Asn Gln Lys Cys Asn Leu Arg Ser Thr 270			
		260		265
Trp 275	Glu Val Ile Arg Asp Ser Glu Asp Phe Lys Lys Thr Thr Pro Met 285			
		275		280
Thr 290	Thr Gln Pro Pro Asn Pro Thr Phe Ser Leu Leu Gln Ile Gly Gln 300			
		290		295
Arg 305	Ile Val Cys Leu Val Leu Asp Lys Ser Gly Ser Met Ala Thr Gly 320			
		305		310
Asn 325	Arg Leu Asn Arg Leu Asn Gln Ala Gly Gln Leu Phe Leu Leu Gln 335			
		325		330
Thr 335	Val Glu Leu Gly Ser Trp Val Gly Met Val Thr Phe Asp Ser Ala			

340	345	350
Ala His Val Gln Ser Glu Leu Ile Gln Ile Asn Ser Gly Ser Asp Arg		
355	360	365
Asp Thr Leu Ala Lys Arg Leu Pro Ala Ala Ala Ser Gly Gly Thr Ser		
370	375	380
Ile Cys Ser Gly Leu Arg Ser Ala Phe Thr Val Ile Arg Lys Lys Tyr		
385	390	395 400
Pro Thr Asp Gly Ser Glu Ile Val Leu Leu Thr Asp Gly Glu Asp Asn		
405	410	415
Thr Ile Ser Gly Cys Phe Asn Glu Val Lys Gln Ser Gly Ala Ile Ile		
420	425	430
His Thr Val Ala Leu Gly Pro Ser Ala Ala Gln Glu Leu Glu Glu Leu		
435	440	445
Ser Lys Met Thr Gly Gly Leu Gln Thr Tyr Ala Ser Asp Gln Val Gln		
450	455	460
Asn Asn Gly Leu Ile Asp Ala Phe Gly Ala Leu Ser Ser Gly Asn Gly		
465	470	475 480
Ala Val Ser Gln Arg Ser Ile Gln Leu Glu Ser Lys Gly Leu Thr Leu		
485	490	495
Gln Asn Ser Gln Trp Met Asn Gly Thr Val Ile Val Asp Ser Thr Val		
500	505	510
Gly Lys Asp Thr Leu Phe Leu Ile Thr Trp Thr Thr Gln Pro Pro Gln		
515	520	525
Ile Leu Leu Trp Asp Pro Ser Gly Gln Lys Gln Gly Gly Phe Val Val		
530	535	540
Asp Lys Asn Thr Lys Met Ala Tyr Leu Gln Ile Pro Gly Ile Ala Lys		
545	550	555 560
Val Gly Thr Trp Lys Tyr Ser Leu Gln Ala Ser Ser Gln Thr Leu Thr		
565	570	575
Leu Thr Val Thr Ser Arg Ala Ser Asn Ala Thr Leu Pro Pro Ile Thr		
580	585	590
Val Thr Ser Lys Thr Asn Lys Asp Thr Ser Lys Phe Pro Ser Pro Leu		
595	600	605
Val Val Tyr Ala Asn Ile Arg Gln Gly Ala Ser Pro Ile Leu Arg Ala		
610	615	620
Ser Val Thr Ala Leu Ile Glu Ser Val Asn Gly Lys Thr Val Thr Leu		



<210> 1067  
 <211> 585  
 <212> PRT  
 <213> Homo sapiens

<400> 1067  
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 Thr Ser Leu Tyr Ser Gln Ala Glu Ser Thr His Thr Thr Ala Phe Pro  
                   20                  25                  30  
 Ala Ser Thr Thr Thr Ser Gly Leu Ser Gln Glu Ser Thr Thr Phe His  
                   35                  40                  45  
 Ser Lys Pro Gly Ser Thr Glu Thr Thr Leu Ser Pro Gly Ser Ile Thr  
                   50                  55                  60  
 Thr Ser Ser Phe Ala Gln Glu Phe Thr Thr Pro His Ser Gln Pro Gly  
                   65                  70                  75                  80  
 Ser Ala Leu Ser Thr Val Ser Pro Ala Ser Thr Thr Val Pro Gly Leu  
                   85                  90                  95  
 Ser Glu Glu Ser Thr Thr Phe Tyr Ser Ser Pro Gly Ser Thr Glu Thr  
                   100                  105                  110  
 Thr Ala Phe Ser His Ser Asn Thr Met Ser Ile His Ser Gln Gln Ser  
                   115                  120                  125  
 Thr Pro Phe Pro Asp Ser Pro Gly Phe Thr His Thr Val Leu Pro Ala  
                   130                  135                  140  
 Thr Leu Thr Thr Thr Asp Ile Gly Gln Glu Ser Thr Ala Phe His Ser  
                   145                  150                  155                  160  
 Ser Ser Asp Ala Thr Gly Thr Thr Pro Leu Pro Ala Arg Ser Thr Ala  
                   165                  170                  175  
 Ser Asp Leu Val Gly Glu Pro Thr Thr Phe Tyr Ile Ser Pro Ser Pro  
                   180                  185                  190  
 Thr Tyr Thr Thr Leu Phe Pro Ala Ser Ser Ser Thr Ser Gly Leu Thr  
                   195                  200                  205  
 Glu Glu Ser Thr Thr Phe His Thr Ser Pro Ser Phe Thr Ser Thr Ile  
                   210                  215                  220  
 Val Ser Thr Glu Ser Leu Glu Thr Leu Ala Pro Gly Leu Cys Gln Glu  
                   225                  230                  235                  240



Gly Gln Ile Trp Asn Gly Lys Gln Cys Val Cys Pro Gln Gly Tyr Val  
 245 250 255  
 Gly Tyr Gln Cys Leu Ser Pro Leu Glu Ser Phe Pro Val Glu Thr Pro  
 260 265 270  
 Glu Lys Leu Asn Ala Thr Leu Gly Met Thr Val Lys Val Thr Tyr Arg  
 275 280 285  
 Asn Phe Thr Glu Lys Met Asn Asp Ala Ser Ser Gln Glu Tyr Gln Asn  
 290 295 300  
 Phe Ser Thr Leu Phe Lys Asn Arg Met Asp Val Val Leu Lys Gly Asp  
 305 310 315 320  
 Asn Leu Pro Gln Tyr Arg Gly Val Asn Ile Arg Arg Leu Leu Asn Gly  
 325 330 335  
 Ser Ile Val Val Lys Asn Asp Val Ile Leu Glu Ala Asp Tyr Thr Leu  
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<211> 5179

<212> PRT

<213> Homo sapiens

<400> 1068

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Asp Gly Asp Val Phe Arg Phe Pro Gly Leu Cys Asp Tyr Asn Phe Ala  
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Ser Asp Cys Arg Gly Ser Tyr Lys Glu Phe Ala Val His Leu Lys Arg  
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Gly Pro Gly Gln Ala Glu Ala Pro Ala Gly Val Glu Ser Ile Leu Leu  
85 90 95

Thr Ile Lys Asp Asp Thr Ile Tyr Leu Thr Arg His Leu Ala Val Leu  
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Asn Gly Ala Val Val Ser Thr Pro His Tyr Ser Pro Gly Leu Leu Ile  
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Glu Lys Ser Asp Ala Tyr Thr Lys Val Tyr Ser Arg Ala Gly Leu Thr  
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Leu Met Trp Asn Arg Glu Asp Ala Leu Met Leu Glu Leu Asp Thr Lys  
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Phe Arg Asn His Thr Cys Gly Leu Cys Gly Asp Tyr Asn Gly Leu Gln  
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Ser Tyr Ser Glu Phe Leu Ser Asp Gly Val Leu Phe Ser Pro Leu Glu  
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 Val Pro Leu Glu Pro Tyr Leu Arg Ala Cys Gln Gln Asp Arg Cys Arg  
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 Ser Val Leu Leu Asn Gln Leu Gln Val Asn Leu Pro His Val Thr Ala  
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 Gln Thr Leu Ala Ala Gly Tyr Tyr His Thr Glu Cys Val Ser Gly Cys  
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Arg Ser Thr Ser Ser Pro Leu Thr Glu Ser Thr Thr Leu Leu Ser Thr  
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 His Ala Leu Val Pro Pro Gln His Tyr Tyr Asp Ala Cys Val Phe Asp  
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 Ser Cys Phe Met Pro Gly Ser Ser Leu Glu Cys Ala Ser Leu Gln Ala  
 4725 4730 4735  
 Tyr Ala Ala Leu Cys Ala Gln Gln Asn Ile Cys Leu Asp Trp Arg Asn  
 4740 4745 4750  
 His Thr His Gly Ala Cys Leu Val Glu Cys Pro Ser His Arg Glu Tyr  
 4755 4760 4765  
 Gln Ala Cys Gly Pro Ala Glu Glu Pro Thr Cys Lys Ser Ser Ser Ser  
 4770 4775 4780  
 Gln Gln Asn Asn Thr Val Leu Val Glu Gly Cys Phe Cys Pro Glu Gly  
 4785 4790 4795 4800

Thr	Met	Asn	Tyr	Ala	Pro	Gly	Phe	Asp	Val	Cys	Val	Lys	Thr	Cys	Gly	
				4805					4810						4815	
Cys	Val	Gly	Pro	Asp	Asn	Val	Pro	Arg	Glu	Phe	Gly	Glu	His	Phe	Glu	
			4820					4825					4830			
Phe	Asp	Cys	Lys	Asn	Cys	Val	Cys	Leu	Glu	Gly	Gly	Ser	Gly	Ile	Ile	
		4835					4840					4845				
Cys	Gln	Pro	Lys	Arg	Cys	Ser	Gln	Lys	Pro	Val	Thr	His	Cys	Val	Glu	
	4850					4855					4860					
Asp	Gly	Thr	Tyr	Leu	Ala	Thr	Glu	Val	Asn	Pro	Ala	Asp	Thr	Cys	Cys	
4865					4870					4875					4880	
Asn	Ile	Thr	Val	Cys	Lys	Cys	Asn	Thr	Ser	Leu	Cys	Lys	Glu	Lys	Pro	
			4885						4890					4895		
Ser	Val	Cys	Pro	Leu	Gly	Phe	Glu	Val	Lys	Ser	Lys	Met	Val	Pro	Gly	
			4900					4905					4910			
Arg	Cys	Cys	Pro	Phe	Tyr	Trp	Cys	Glu	Ser	Lys	Gly	Val	Cys	Val	His	
		4915					4920					4925				
Gly	Asn	Ala	Glu	Tyr	Gln	Pro	Gly	Ser	Pro	Val	Tyr	Ser	Ser	Lys	Cys	
	4930					4935					4940					
Gln	Asp	Cys	Val	Cys	Thr	Asp	Lys	Val	Asp	Asn	Asn	Thr	Leu	Leu	Asn	
4945					4950					4955					4960	
Val	Ile	Ala	Cys	Thr	His	Val	Pro	Cys	Asn	Thr	Ser	Cys	Ser	Pro	Gly	
			4965						4970					4975		
Phe	Glu	Leu	Met	Glu	Ala	Pro	Gly	Glu	Cys	Cys	Lys	Lys	Cys	Glu	Gln	
		4980					4985						4990			
Thr	His	Cys	Ile	Ile	Lys	Arg	Pro	Asp	Asn	Gln	His	Val	Ile	Leu	Lys	
		4995				5000						5005				
Pro	Gly	Asp	Phe	Lys	Ser	Asp	Pro	Lys	Asn	Asn	Cys	Thr	Phe	Phe	Ser	
	5010					5015					5020					
Cys	Val	Lys	Ile	His	Asn	Gln	Leu	Ile	Ser	Ser	Val	Ser	Asn	Ile	Thr	
5025					5030					5035					5040	
Cys	Pro	Asn	Phe	Asp	Ala	Ser	Ile	Cys	Ile	Pro	Gly	Ser	Ile	Thr	Phe	
			5045					5050					5055			
Met	Pro	Asn	Gly	Cys	Cys	Lys	Thr	Cys	Thr	Pro	Arg	Asn	Glu	Thr	Arg	
		5060						5065				5070				
Val	Pro	Cys	Ser	Thr	Val	Pro	Val	Thr	Thr	Glu	Val	Ser	Tyr	Ala	Gly	
		5075					5080					5085				

Cys Thr Lys Thr Val Leu Met Asn His Cys Ser Gly Ser Cys Gly Thr  
 5090 5095 5100  
 Phe Val Met Tyr Ser Ala Lys Ala Gln Ala Leu Asp His Ser Cys Ser  
 5105 5110 5115 5120  
 Cys Cys Lys Glu Glu Lys Thr Ser Gln Arg Glu Val Val Leu Ser Cys  
 5125 5130 5135  
 Pro Asn Gly Gly Ser Leu Thr His Thr Tyr Thr His Ile Glu Ser Cys  
 5140 5145 5150  
 Gln Cys Gln Asp Thr Val Cys Gly Leu Pro Thr Gly Thr Ser Arg Arg  
 5155 5160 5165  
 Ala Arg Arg Ser Pro Arg His Leu Gly Ser Gly  
 5170 5175

<210> 1069  
 <211> 1173  
 <212> DNA  
 <213> Homo sapiens

<400> 1069  
 cagccagaga caggggagga gggaagaagg atactgtgga aagggatggc ggggcaaaca 60  
 tttagagcta gaagccacga ctgggaccac tggagacact gaagaaggca ggggccctta 120  
 gagtcttggt tgccaaacag atttcagat caaggagaac ccaggagttt caaagaagcg 180  
 ctagtaagggt ctctgagatc cttgcactag ctacatcctc agggtaggag gaagatggct 240  
 tccagaagca tgcggctgct cctattgctg agctgcctgg ccaaaacagg agtcctgggt 300  
 gatatcatca tgagaccag ctgtgctcct ggatggtttt accacaagtc caattgctat 360  
 gggttacttca ggaagctgag gaactgggtct gatgccgagc tgcagtgtca gtcttacgga 420  
 aacggagccc acctggcatc tatcctgagt ttaaaggaag ccagcaccat agcagagtac 480  
 ataagtggct atcagagaag ccagccgata tggattggcc tgcacgaccc acagaagagg 540  
 cagcagtggc agtggattga tggggccatg tatctgtaca gatcctggtc tggcaagtcc 600  
 atgggtggga acaagcactg tgctgagatg agctccaata acaacttttt aacttgagc 660  
 agcaacgaat gcaacaagcg ccaacacttc ctgtgcaagt accgaccata gagcaagaat 720  
 caagattctg ctaactcctg cacagccccg tcctcttcct ttctgctagc ctggctaaat 780  
 ctgctcatta tttagaggg gaaacctagc aaactaagag tgataagggc cctactacac 840  
 tggctttttt aggccttagag acagaaactt tagcattggc ccagtagtgg cttctagctc 900  
 taaatgtttg ccccgccatc cctttccaca gtatccttct tccctcctcc cctgtctctg 960  
 gctgtctcga gcagtctaga agagtgcac tccagcctat gaaacagctg ggtctttggc 1020  
 cataagaagt aaagatttga agacagaagg aagaaactca ggagtaagct tctagcccc 1080  
 ttcagcttct acacccttct gccctctctc cattgcctgc accccacccc agccactcaa 1140  
 ctctgcttg tttttccttt ggccatggga aag 1173

<210> 1070  
 <211> 158  
 <212> PRT  
 <213> Homo sapiens

<400> 1070  
 Met Ala Ser Arg Ser Met Arg Leu Leu Leu Leu Leu Ser Cys Leu Ala

5

10

15

Lys Thr Gly Val Leu Gly Asp Ile Ile Met Arg Pro Ser Cys Ala Pro  
20 25 30

Gly Trp Phe Tyr His Lys Ser Asn Cys Tyr Gly Tyr Phe Arg Lys Leu  
35 40 45

Arg Asn Trp Ser Asp Ala Glu Leu Glu Cys Gln Ser Tyr Gly Asn Gly  
50 55 60

Ala His Leu Ala Ser Ile Leu Ser Leu Lys Glu Ala Ser Thr Ile Ala  
65 70 75 80

Glu Tyr Ile Ser Gly Tyr Gln Arg Ser Gln Pro Ile Trp Ile Gly Leu  
85 90 95

His Asp Pro Gln Lys Arg Gln Gln Trp Gln Trp Ile Asp Gly Ala Met  
100 105 110

Tyr Leu Tyr Arg Ser Trp Ser Gly Lys Ser Met Gly Gly Asn Lys His  
115 120 125

Cys Ala Glu Met Ser Ser Asn Asn Asn Phe Leu Thr Trp Ser Ser Asn  
130 135 140

Glu Cys Asn Lys Arg Gln His Phe Leu Cys Lys Tyr Arg Pro  
145 150 155

<210> 1071  
<211> 1114  
<212> DNA  
<213> Homo sapiens

<400> 1071  
gcacgaggcc aaacagattt gcagatcaag gagaacccag gagtttcaaa gaagcgctag 60  
taaggtctct gagatccttg cactagctac atcctcaggg taggaggaag atgggttcca 120  
gaagcatgcg gctgctccta ttgctgagct gcctggccaa aacaggagtc ctgggtgata 180  
tcatcatgag acccagctgt gctcctggat ggttttacca caagtccaat tgctatggtt 240  
acttcaggaa gctgaggaac tggctgatg ccgagctcga gtgtcagtct tacggaaacg 300  
gagcccacct ggcattctatc ctgagtttaa aggaagccag caccatagca gactacataa 360  
gtggctatca gagaagccag ccgatatgga ttggcctgca cgaccacag aagaggcagc 420  
agtggcagtg gattgatggg gccatgtatc tgtacagatc ctggctctggc aagtcctatg 480  
gtgggaacaa gcactgtgct gagatgagct ccaataacaa ctttttaact tggagcagca 540  
acgaatgcaa caagcgccaa cacttcctgt gcaagtaccg accatagagc aagaatcaag 600  
attctgctaa ctctgcaca gccccgtcct cttcctttct gctagcctgg ctaaatctgc 660  
tcattatttc agaggggaaa cctagcaaac taagagtgat aagggcccta ctacactggc 720  
tttttttaggc ttagagacag aaacttttagc attggcccag tagtggttct tagctctaaa 780  
tgtttgcccc gccatccctt tccacagtat ccttcttccc tcttccccctg tctctggctg 840  
tctcgagcag tctagaagag tgcattctca gcctatgaaa cagctgggtc tttggccata 900  
agaagtaaag atttgaagac agaaggaaga aactcaggag taagcttcta gacccttca 960

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gcttctacac ccttctgccc tctctccatt gcctgcaccc caccccagcc actcaactcc 1020
tgcttgTTTT tcctttggcc ataggaaggt ttaccagtag aatccttgct aggttgatgt 1080
gggccataca ttcttttaat aaaccattgt gtac 1114

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<210> 1072
<211> 1152
<212> DNA
<213> Homo sapiens

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<400> 1072
actggagaca ctgaagaagg cagggggcct tagagtcttg gttgccaaac agatttgcag 60
atcaaggaga acccaggagt ttcaaagaag cgctagtaag gtctctgaga tccttgcaact 120
agctacatcc tcagggtagg aggaagatgg cttccagaag catgcgctg ctcctattgc 180
tgagctgcct ggccaaaaca ggagtcctgg gtgatatcat catgagaccc agctgtgctc 240
ctggatgggt ttaccacaag tccaattgct atggttactt caggaagctg aggaactggg 300
ctgatgccga gctcgagtgt cagtcttacg gaaacggagc ccacctggca tctatcctga 360
gtttaaagga agccagcacc atagcagagt acataagtgg ctatcagaga agccagccga 420
tatggattgg cctgcacgac ccacagaaga ggcagcagtg gcagtggatt gatggggcca 480
tgtatctgta cagatcctgg tctggcaagt ccatgggtgg gaacaagcac tgtgctgaga 540
tgagctccaa taacaacttt ttaacttgga gcagcaacga atgcaacaag cgccaacact 600
tcctgtgcaa gtaccgacca tagagcaaga atcaagattc tgctaactcc tgcacagccc 660
cgctctcttc ctttctgcta gcctggctaa atctgctcat tatttcagag gggaaacct 720
gcaaactaag agtgataagg gccctactac actggctttt ttaggcttag agacagaaac 780
tttagcattg gcccagtagt ggcttctagc tctaaatgtt tgccccgcca tccctttcca 840
cagtatcctt cttccctcct cccctgtctc tggctgtctc gagcagtcta gaagagtgca 900
tctccagcct atgaaacagc tgggtctttg gccataagaa gtaaaagatt gaagacagaa 960
ggaagaaact caggagtaag cttctagccc cttcagctt ctacaccctt ctgccctctc 1020
tccattgcct gcacccacc ccagccactc aactcctgct tgttttctt ttggccatgg 1080
gaaggtttac cagtagaatc cttgctaggt tgatgtgggc catacattcc ttaataaac 1140
cattgtgtac at 1152

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<210> 1073
<211> 474
<212> DNA
<213> Homo sapiens

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<400> 1073
atggcttcca gaagcatgcg gctgctccta ttgctgagct gcctggccaa aacaggagtc 60
ctgggtgata tcatcatgag acccagctgt gtcctggat ggttttacca caagtccaat 120
tgctatgggt acttcaggaa gctgaggaac tggctctgat ccgagctcga gtgtcagtct 180
tacggaaacg gagccacct ggcatctatc ctgagtttaa aggaagccag caccatagca 240
gagtacataa gtggctatca gagaagccag ccgatatgga ttggcctgca cgaccacag 300
aagaggcagc agtggcagtg gattgatggg gccatgtatc tgtacagatc ctgggtctggc 360
aagtccatgg gtgggaacaa gcactgtgct gagatgagct ccaataacaa ctttttaact 420
tggagcagca acgaatgcaa caagcgccaa cacttcctgt gcaagtaccg acca 474

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<210> 1074
<211> 1114
<212> DNA
<213> Homo sapiens

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<400> 1074
gcacgaggcc aaacagattt gcagatcaag gagaaccag gagtttcaaa gaagcgctag 60
taaggtctct gagatccttg cactagctac atcctcaggg taggaggaag atggcttcca 120

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gaagcatgcg gctgctccta ttgctgagct gcctggccaa aacaggagtc ctgggtgata 180
tcatcatgag acccagctgt gctcctggat ggttttacca caagtccaat tgctatgggt 240
acttcaggaa gctgaggaac tggctctgat ccgagctcga gtgtcagtc taccgaaacg 300
gagcccacct ggcattctatc ctgagtttaa aggaagccag caccatagca gactacataa 360
gtggctatca gagaagccag ccgatatgga ttggcctgca cgacccacag aagaggcagc 420
agtggcagtg gattgatggg gccatgtatc tgtacagatc ctggctctggc aagtccatgg 480
gtgggaacaa gcactgtgct gagatgagct ccaataacaa ctttttaact tggagcagca 540
acgaatgcaa caagcgccaa cacttcctgt gcaagtaccg accatagagc aagaatcaag 600
attctgctaa ctctgcaca gccccgtcct cttcctttct gctagcctgg ctaaaatctgc 660
tcattatttc agaggggaaa cctagcaaac taagagtgat aagggcccta ctacactggc 720
tttttttaggc ttagagacag aaacttttagc attggcccag tagtggttc tagctctaaa 780
tgtttgcccc gccatccctt tccacagtat ccttcttccc tctctccctg tctctggctg 840
tctcgagcag tctagaagag tgcattccca gcctatgaaa cagctgggtc tttggccata 900
agaagtaaac atttgaagac agaaggaaga aactcaggag taagcttcta gaccttcta 960
gcttctacac ccttctgccc tctctccatt gcctgcaccc caccocagcc actcaactcc 1020
tgcttgcttt tcttttggcc ataggaaggt ttaccagtag aatccttgct aggttgatgt 1080
gggccataca ttcctttaat aaaccattgt gtac 1114

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<210> 1075  
 <211> 614  
 <212> DNA  
 <213> Homo sapiens

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<400> 1075
tgaagaaggc aggggcccctt agagtcttgg ttgccaaaca gatttgacaga tcaaggagaa 60
cccaggagtt tcaaagaagc gctagtaagg tctctgagat ccttgcaacta gotacatcct 120
cagggtagga ggaagatggc ttccagaagc atgcggctgc tctatttgc ttagctgctg 180
gccaaaacag gactcctggg tgatatcatc atgagaccca gctgtgctcc tggatgggtt 240
taccacaagt ccaattgcta tggttacttc aggaagctga ggaactggc tgatgccag 300
ctcgagtgtc agtcttacgg aaacggagcc cacctggcat ctatcctgag tttaaaggaa 360
gccagcacca tagcagagta cataagtggc tatcagagaa gccagccgat atggattggc 420
ctgcacgacc cacagaagag gcagcagtg cagtggattg atggggccat gtatctgtac 480
agatcctggg ctggcaagtc catgggtggg aacaagcact gtgctgagat gagctccaat 540
aacaactttt taacttggag cagcaacgaa tgcaacaagc gccaacactt cctgtgcaag 600
taccgacctat agag 614

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<210> 1076  
 <211> 3345  
 <212> DNA  
 <213> Homo sapiens

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<400> 1076
gaattccgtc tgcaccactg aatggaagaa aaggactttt aaccaccatt ttgtgactta 60
cagaaaggaa tttgaataaa gaaaactatg atacttcagg cccatcttca ctccctgtgt 120
cttcttatgc tttatttggc aactggatat ggccaagagg ggaagtttag tggacccctg 180
aaacccatga cttttctat ttatgaaggc caagaacoga gtcaaattat attccagttt 240
aaggccaatc ctctgctgtg gacttttgaa ctaactgggg agacagacaa catatttgtg 300
atagaacggg agggacttct gtattacaac agagccttgg acagggaac aagatctact 360
cacaatctcc aggttgcagc cctggacgct aatggaatta tagtggaggg tccagtcctt 420
atcaccatag aagtgaagga catcaacgac aatcgaccca cgtttctcca gtcaaagtac 480
gaaggctcag taaggcagaa ctctcgccca ggaaagccct tcttgatgt caatgccaca 540
gacctggatg atccggccac tcccaatggc cagctttatt accagattgt catccagctt 600
cccatgatca acaatgtcat gtactttcag atcaacaaca aaacgggagc catctctctt 660
acccgagagg gatctcagga attgaatcct gctaagaatc ctctctataa tctggtgatc 720

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Lys Thr Gly Val Leu Gly Asp Ile Ile Met Arg Pro Ser Cys Ala Pro  
                   20                  25                  30  
 Gly Trp Phe Tyr His Lys Ser Asn Cys Tyr Gly Tyr Phe Arg Lys Leu  
                   35                  40                  45  
 Arg Asn Trp Ser Asp Ala Glu Leu Glu Cys Gln Ser Tyr Gly Asn Gly  
                   50                  55                  60  
 Ala His Leu Ala Ser Ile Leu Ser Leu Lys Glu Ala Ser Thr Ile Ala  
                   65                  70                  75                  80  
 Glu Tyr Ile Ser Gly Tyr Gln Arg Ser Gln Pro Ile Trp Ile Gly Leu  
                   85                  90                  95  
 His Asp Pro Gln Lys Arg Gln Gln Trp Gln Trp Ile Asp Gly Ala Met  
                   100                  105                  110  
 Tyr Leu Tyr Arg Ser Trp Ser Gly Lys Ser Met Gly Gly Asn Lys His  
                   115                  120                  125  
 Cys Ala Glu Met Ser Ser Asn Asn Asn Phe Leu Thr Trp Ser Ser Asn  
                   130                  135                  140  
 Glu Cys Asn Lys Arg Gln His Phe Leu Cys Lys Tyr Arg Pro  
                   145                  150                  155  
  
 <210> 1078  
 <211> 158  
 <212> PRT  
 <213> Homo sapiens  
  
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 Met Ala Ser Arg Ser Met Arg Leu Leu Leu Leu Leu Ser Cys Leu Ala  
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 Lys Thr Gly Val Leu Gly Asp Ile Ile Met Arg Pro Ser Cys Ala Pro  
                   20                  25                  30  
 Gly Trp Phe Tyr His Lys Ser Asn Cys Tyr Gly Tyr Phe Arg Lys Leu  
                   35                  40                  45  
 Arg Asn Trp Ser Asp Ala Glu Leu Glu Cys Gln Ser Tyr Gly Asn Gly  
                   50                  55                  60  
 Ala His Leu Ala Ser Ile Leu Ser Leu Lys Glu Ala Ser Thr Ile Ala  
                   65                  70                  75                  80  
 Glu Tyr Ile Ser Gly Tyr Gln Arg Ser Gln Pro Ile Trp Ile Gly Leu  
                   85                  90                  95  
 His Asp Pro Gln Lys Arg Gln Gln Trp Gln Trp Ile Asp Gly Ala Met  
                   100                  105                  110

Tyr Leu Tyr Arg Ser Trp Ser Gly Lys Ser Met Gly Gly Asn Lys His  
115 120 125

Cys Ala Glu Met Ser Ser Asn Asn Asn Phe Leu Thr Trp Ser Ser Asn  
130 135 140

Glu Cys Asn Lys Arg Gln His Phe Leu Cys Lys Tyr Arg Pro  
145 150 155

<210> 1079

<211> 158

<212> PRT

<213> Homo sapiens

<400> 1079

Met Ala Ser Arg Ser Met Arg Leu Leu Leu Leu Leu Ser Cys Leu Ala  
5 10 15

Lys Thr Gly Val Leu Gly Asp Ile Ile Met Arg Pro Ser Cys Ala Pro  
20 25 30

Gly Trp Phe Tyr His Lys Ser Asn Cys Tyr Gly Tyr Phe Arg Lys Leu  
35 40 45

Arg Asn Trp Ser Asp Ala Glu Leu Glu Cys Gln Ser Tyr Gly Asn Gly  
50 55 60

Ala His Leu Ala Ser Ile Leu Ser Leu Lys Glu Ala Ser Thr Ile Ala  
65 70 75 80

Glu Tyr Ile Ser Gly Tyr Gln Arg Ser Gln Pro Ile Trp Ile Gly Leu  
85 90 95

His Asp Pro Gln Lys Arg Gln Gln Trp Gln Trp Ile Asp Gly Ala Met  
100 105 110

Tyr Leu Tyr Arg Ser Trp Ser Gly Lys Ser Met Gly Gly Asn Lys His  
115 120 125

Cys Ala Glu Met Ser Ser Asn Asn Asn Phe Leu Thr Trp Ser Ser Asn  
130 135 140

Glu Cys Asn Lys Arg Gln His Phe Leu Cys Lys Tyr Arg Pro  
145 150 155

<210> 1080

<211> 158

<212> PRT

<213> Homo sapiens

<400> 1080





Thr Pro Lys Leu Pro Met Asp Gly Leu Phe Leu Ile Gln Thr Tyr Ala  
385 390 395 400

Gly Met Leu Gln Leu Ala Lys Gln Ser Leu Lys Lys Gln Asp Thr Pro  
405 410 415

Gln Tyr Asn Leu Thr Ile Glu Val Ser Asp Lys Asp Phe Lys Thr Leu  
420 425 430

Cys Phe Val Gln Ile Asn Val Ile Asp Ile Asn Asp Gln Ile Pro Ile  
435 440 445

Phe Glu Lys Ser Asp Tyr Gly Asn Leu Thr Leu Ala Glu Asp Thr Asn  
450 455 460

Ile Gly Ser Thr Ile Leu Thr Ile Gln Ala Thr Asp Ala Asp Glu Pro  
465 470 475 480

Phe Thr Gly Ser Ser Lys Ile Leu Tyr His Ile Ile Lys Gly Asp Ser  
485 490 495

Glu Gly Arg Leu Gly Val Asp Thr Asp Pro His Thr Asn Thr Gly Tyr  
500 505 510

Val Ile Ile Lys Lys Pro Leu Asp Phe Glu Thr Ala Ala Val Ser Asn  
515 520 525

Ile Val Phe Lys Ala Glu Asn Pro Glu Pro Leu Val Phe Gly Val Lys  
530 535 540

Tyr Asn Ala Ser Ser Phe Ala Lys Phe Thr Leu Ile Val Thr Asp Val  
545 550 555 560

Asn Glu Ala Pro Gln Phe Ser Gln His Val Phe Gln Ala Lys Val Ser  
565 570 575

Glu Asp Val Ala Ile Gly Thr Lys Val Gly Asn Val Thr Ala Lys Asp  
580 585 590

Pro Glu Gly Leu Asp Ile Ser Tyr Ser Leu Arg Gly Asp Thr Arg Gly  
595 600 605

Trp Leu Lys Ile Asp His Val Thr Gly Glu Ile Phe Ser Val Ala Pro  
610 615 620

Leu Asp Arg Glu Ala Gly Ser Pro Tyr Arg Val Gln Val Val Ala Thr  
625 630 635 640

Glu Val Gly Gly Ser Ser Leu Ser Ser Val Ser Glu Phe His Leu Ile  
645 650 655

Leu Met Asp Val Asn Asp Asn Pro Pro Arg Leu Ala Lys Asp Tyr Thr  
660 665 670



20 25 30  
 Cys Leu Ile Phe Pro Ser Gln Ile Arg Phe Glu His  
 35 40

<210> 1084  
 <211> 1035  
 <212> DNA  
 <213> Homo sapiens

<400> 1084  
 atgcatcacc atcaccatca cacggccgcg tccgataact tccagctgtc ccaggggtggg 60  
 cagggattcg ccattccgat cgggcaggcg atggcgatcg cgggccagat caagcttccc 120  
 accgttcata tcgggcctac cgccttcctc ggcttgggtg ttgtcgacaa caacggcaac 180  
 ggcgacgag tccaacgcgt ggtcgggagc gctccggcgg caagtctcgg catctccacc 240  
 ggcgacgtga tcaccgcggt cgacggcgct ccgatcaact cggccaccgc gatggcggac 300  
 gcgcttaacg ggcacatcc cgggtgacgtc atctcgggtga cctggcaaac caagtccggc 360  
 ggcacgcgta cagggaaacgt gacattggcc gagggacccc cggccgaatt catatgggta 420  
 cgagtaagca atgactctca agcaattttt ggttctgaag atgtaggctc tagctcctac 480  
 gttgctgtgg acatattgat tgctgtaggt gccatcatca tgattctggg ctctctggga 540  
 tgctgcggtg ctataaaaga aagtcgctgc atgcttctgt tgtttttcat aggcttgctt 600  
 ctgatcctgc tcctgcaggt ggcgacaggt atcctaggag ctgttttcaa atctaagtct 660  
 gatcgcattg tgaatgaaac tctctatgaa aacacaaagc ttttgagcgc cacaggggaa 720  
 agtgaaaaaac aattccagga agccataatt gtgtttcaag aagagtttaa atgctgcggt 780  
 ttgggtcaatg gagctgctga ttggggaaat aattttcaac actatcctga attatgtgcc 840  
 tgtctagata agcagagacc atgccaaagc tataatggaa aacaagttta caaagagacc 900  
 tgtatttctt tcataaaaga cttcttggca aaaaatttga ttatagttat tggaatatca 960  
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 atcgggaaca aataa 1035

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 <213> Homo sapiens

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Asp Ser Gln Ala Ile Phe Gly Ser Glu Asp Val Gly Ser Ser Ser Tyr  
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 Gly Phe Leu Gly Cys Cys Gly Ala Ile Lys Glu Ser Arg Cys Met Leu  
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 Thr Gly Ile Leu Gly Ala Val Phe Lys Ser Lys Ser Asp Arg Ile Val  
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 225 230 235 240  
 Ser Glu Lys Gln Phe Gln Glu Ala Ile Ile Val Phe Gln Glu Glu Phe  
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 <213> Homo sapiens

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&lt;210&gt; 1093

&lt;211&gt; 512

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1093

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<210> 1095

<211> 1548

<212> PRT

<213> Homo sapiens

<400> 1095

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Trp Glu Val Gln Arg Tyr Asp Gly Trp Phe Asn Asn Leu Arg His His
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Glu Arg Gly Ala Val Gly Cys Arg Leu Gln Arg Arg Val Pro Ala Asn
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Tyr Ala Asp Gly Val Tyr Gln Ala Leu Glu Glu Pro Gln Leu Pro Asn
 65          70          75          80
Pro Arg Arg Leu Ser Asn Ala Ala Thr Arg Gly Ile Ala Gly Leu Pro
 85          90          95
Ser Leu His Asn Arg Thr Val Leu Gly Val Phe Phe Gly Tyr His Val
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 130         135         140
Arg Gly Asp Val Val Leu Pro Phe Gln Arg Ser Arg Trp Asp Pro Glu
 145         150         155         160
Thr Gly Arg Ser Pro Ser Asn Pro Arg Asp Leu Ala Asn Gln Val Thr
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Gly Trp Leu Asp Gly Ser Ala Ile Tyr Gly Ser Ser His Ser Trp Ser
 180         185         190
Asp Ala Leu Arg Ser Phe Ser Gly Gln Leu Ala Ser Gly Pro Asp
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Pro Ala Phe Pro Arg Asp Ser Gln Asn Pro Leu Leu Met Trp Ala Ala
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Pro Asp Pro Ala Thr Gly Gln Asn Gly Pro Arg Gly Leu Tyr Ala Phe
 225         230         235         240
Gly Ala Glu Arg Gly Asn Arg Glu Pro Phe Leu Gln Ala Leu Gly Leu
 245         250         255
Leu Trp Phe Arg Tyr His Asn Leu Trp Ala Gln Arg Leu Ala Arg Gln
 260         265         270
His Pro Asp Trp Glu Asp Glu Glu Leu Phe Gln His Ala Arg Lys Arg
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Val Ile Ala Thr Tyr Gln Asn Ile Ala Val Tyr Glu Trp Leu Pro Ser
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Ser	Thr	Met	Val	Pro	Pro	Gly	Val	Tyr	Met	Arg	Asn	Ala	Ser	Cys	His	340	345	350	
Phe	Arg	Lys	Val	Leu	Asn	Lys	Gly	Phe	Gln	Ser	Ser	Gln	Ala	Leu	Arg	355	360	365	
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Gln	Leu	Glu	Leu	Leu	Leu	Gly	Gly	Leu	Leu	Glu	Ser	His	Gly	Asp	Pro	485	490	495	
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Thr	Leu	Leu	Leu	Lys	Ile	Pro	Lys	Glu	Tyr	Asp	Leu	Val	Leu	Leu	Phe	705	710	715	720
Ser	Ser	Glu	Glu	Glu	Arg	Gly	Ala	Phe	Val	Gln	Gln	Leu	Trp	Asp	Phe	725	730	735	

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 785 790 795 800  
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&lt;210&gt; 1096

&lt;211&gt; 1109

&lt;212&gt; DNA

<213> Homo sapiens

<400> 1096

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<211> 3459

<212> DNA

<213> Homo sapiens

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<210> 1098

<211> 875

<212> DNA

<213> Homo sapiens

<400> 1098

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875

<210> 1099

<211> 1987

<212> DNA

<213> Homo sapiens

<400> 1099

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<210> 1100

<211> 401

<212> DNA

<213> Homo sapiens

<400> 1100

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gttacagaag taccagtcca agcaagagga attacagaga gatatgcaag gaagtacaca 180
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<210> 1101
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<212> DNA
<213> Homo sapiens

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<210> 1102

<211> 840

<212> PRT

<213> Homo sapiens

<400> 1102

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Val Ala Arg Ala Gly Gly Ile Glu Thr Ile Ala Asn Glu Tyr Ser Asp
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Arg Cys Thr Pro Ala Cys Ile Ser Phe Gly Pro Lys Asn Arg Ser Ile
          35              40              45

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Gly Ala Ala Ala Lys Ser Gln Val Ile Ser Asn Ala Lys Asn Thr Val
          50              55              60

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Gln Gly Phe Lys Arg Phe His Gly Arg Ala Phe Ser Asp Pro Phe Val
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Glu Ala Glu Lys Ser Asn Leu Ala Tyr Asp Ile Val Gln Leu Pro Thr
          85              90              95

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Gly Leu Thr Gly Ile Lys Val Thr Tyr Met Glu Glu Glu Arg Asn Phe
          100             105             110

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Thr Thr Glu Gln Val Thr Ala Met Leu Leu Ser Lys Leu Lys Glu Thr
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Ala Glu Ser Val Leu Lys Lys Pro Val Val Asp Cys Val Val Ser Val
          130             135             140

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Pro Cys Phe Tyr Thr Asp Ala Glu Arg Arg Ser Val Met Asp Ala Thr
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Gln Ile Ala Gly Leu Asn Cys Leu Arg Leu Met Asn Glu Thr Thr Ala
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Val Ala Leu Ala Tyr Gly Ile Tyr Lys Gln Asp Leu Pro Ala Leu Glu
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Glu Lys Pro Arg Asn Val Val Phe Val Asp Met Gly His Ser Ala Tyr
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Gln Val Ser Val Cys Ala Phe Asn Arg Gly Lys Leu Lys Val Leu Ala
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Lys	Ser	Lys	Ile	Arg	Ala	Leu	Leu	Arg	Leu	Ser	Gln	Glu	Cys	Glu	Lys
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Ala	Val	Glu	Ile	Val	Gly	Gly	Ala	Thr	Arg	Ile	Pro	Ala	Val	Lys	Glu
			340					345					350		
Lys	Ile	Ser	Lys	Phe	Phe	Gly	Lys	Glu	Leu	Ser	Thr	Thr	Leu	Asn	Ala
		355					360					365			
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Pro	Ala	Phe	Lys	Val	Arg	Glu	Phe	Ser	Ile	Thr	Asp	Val	Val	Pro	Tyr
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Pro	Ile	Ser	Leu	Arg	Trp	Asn	Ser	Pro	Ala	Glu	Glu	Gly	Ser	Ser	Asp
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Cys	Glu	Val	Phe	Ser	Lys	Asn	His	Ala	Ala	Pro	Phe	Ser	Lys	Val	Leu
			420					425					430		
Thr	Phe	Tyr	Arg	Lys	Glu	Pro	Phe	Thr	Leu	Glu	Ala	Tyr	Tyr	Ser	Ser
		435					440					445			
Pro	Gln	Asp	Leu	Pro	Tyr	Pro	Asp	Pro	Ala	Ile	Ala	Gln	Phe	Ser	Val
	450					455					460				
Gln	Lys	Val	Thr	Pro	Gln	Ser	Asp	Gly	Ser	Ser	Ser	Lys	Val	Lys	Val
465					470					475					480
Lys	Val	Arg	Val	Asn	Val	His	Gly	Ile	Phe	Ser	Val	Ser	Ser	Ala	Ser
				485					490					495	
Leu	Val	Glu	Val	His	Lys	Ser	Glu	Glu	Asn	Glu	Glu	Pro	Met	Glu	Thr
			500					505					510		



Glu Gln Asn Gly Pro Val Asp Gly Gln Gly Asp Asn Pro Gly Pro Gln  
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Ala Ala Glu Gln Gly Thr Asp Thr Ala Val Pro Ser Asp Ser Asp Lys  
820 825 830

Lys Leu Pro Glu Met Asp Ile Asp  
835 840

<210> 1103  
<211> 2326  
<212> DNA  
<213> Homo sapiens

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<212> DNA  
<213> Homo sapiens

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<212> DNA  
<213> Homo sapiens

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<211> 1528

<212> DNA

<213> Homo sapiens

<400> 1106

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 <213> Homo sapiens

<400> 1107

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Asp	Leu	Gly	Leu	Gly	Asp	Thr	Val	Glu	Gly	Leu	Asp	Ala	Gln	Val	Val
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His Phe Val Gly Phe Leu Met Lys Asn Ala Pro Gln Phe Lys Ala Asn 305 310 315 320		
His Ala Glu Leu Ile Leu Ala Asn Pro Ser Pro Val Leu Ile Tyr Gln 325 330 335		
Ile Ser Ser Ser Glu Thr Arg Val Leu Val Asp Ile Arg Gly Glu Met 340 345 350		
Pro Arg Asn Leu Arg Glu Tyr Met Val Glu Lys Ile Tyr Pro Gln Ile 355 360 365		
Pro Asp His Leu Lys Glu Pro Phe Leu Glu Ala Thr Asp Asn Ser His 370 375 380		
Leu Arg Phe Met Pro Ala Ser Phe Leu Pro Pro Ser Ser Val Lys Lys 385 390 395 400		
Arg Gly Val Leu Leu Leu Gly Asp Ala Tyr Asn Met Arg His Pro Leu 405 410 415		
Thr Gly Gly Gly Met Thr Val Ala Phe Lys Asp Ile Lys Leu Trp Arg 420 425 430		
Lys Leu Leu Lys Gly Ile Pro Asp Leu Tyr Asp Asp Ala Ala Ile Phe 435 440 445		
Glu Ala Lys Lys Ser Phe Tyr Trp Ala Arg Lys Thr Ser His Ser Phe 450 455 460		
Val Val Asn Ile Leu Ala Gln Ala Leu Tyr Glu Leu Phe Ser Ala Thr 465 470 475 480		
Asp Asp Ser Leu His Gln Leu Arg Lys Ala Cys Phe Leu Tyr Phe Lys 485 490 495		
Leu Gly Gly Glu Cys Val Ala Gly Pro Val Gly Leu Leu Ser Val Leu 500 505 510		
Ser Pro Asn Pro Leu Val Leu Ile Gly His Phe Phe Ala Val Ala Ile 515 520 525		
Tyr Ala Val Tyr Phe Cys Phe Lys Ser Glu Pro Trp Ile Thr Lys Pro 530 535 540		
Arg Ala Leu Leu Ser Ser Gly Ala Val Leu Tyr Lys Ala Cys Ser Val		





&lt;213&gt; Homo sapiens

&lt;400&gt; 1109

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Ala Thr Phe Gly Ala Asp Asp Leu Val Leu Thr Leu Ser Asn Pro Gln  
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Met Ser Leu Glu Gly Thr Glu Lys Ala Ser Trp Leu Gly Glu Gln Pro  
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Gln Phe Trp Ser Lys Thr Gln Val Leu Asp Trp Ile Ser Tyr Gln Val  
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Glu Lys Asn Lys Tyr Asp Ala Ser Ala Ile Asp Phe Ser Arg Cys Asp  
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Met Asp Gly Ala Thr Leu Cys Asn Cys Ala Leu Glu Glu Leu Arg Leu  
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Val Phe Gly Pro Leu Gly Asp Gln Leu His Ala Gln Leu Arg Asp Leu  
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Thr Ser Ser Ser Ser Asp Glu Leu Ser Trp Ile Ile Glu Leu Leu Glu  
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Lys Asp Gly Met Ala Phe Gln Glu Ala Leu Asp Pro Gly Pro Phe Asp  
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Gln Gly Ser Pro Phe Ala Gln Glu Leu Leu Asp Asp Gly Gln Gln Ala  
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Ser Pro Tyr His Pro Gly Ser Cys Gly Ala Gly Ala Pro Ser Pro Gly  
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Ser Ser Asp Val Ser Thr Ala Gly Thr Gly Ala Ser Arg Ser Ser His  
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Ser Ser Asp Ser Gly Gly Ser Asp Val Asp Leu Asp Pro Thr Asp Gly  
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Lys Leu Phe Pro Ser Asp Gly Phe Arg Asp Cys Lys Lys Gly Asp Pro  
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Lys His Gly Lys Arg Lys Arg Gly Arg Pro Arg Lys Leu Ser Lys Glu  
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Tyr Trp Asp Cys Leu Glu Gly Lys Lys Ser Lys His Ala Pro Arg Gly  
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Thr His Leu Trp Glu Phe Ile Arg Asp Ile Leu Ile His Pro Glu Leu  
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Asn Glu Gly Leu Met Lys Trp Glu Asn Arg His Glu Gly Val Phe Lys  
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Phe Leu Arg Ser Glu Ala Val Ala Gln Leu Trp Gly Gln Lys Lys Lys  
305 310 315 320

Asn Ser Asn Met Thr Tyr Glu Lys Leu Ser Arg Ala Met Arg Tyr Tyr  
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Tyr Lys Arg Glu Ile Leu Glu Arg Val Asp Gly Arg Arg Leu Val Tyr  
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Lys Phe Gly Lys Asn Ser Ser Gly Trp Lys Glu Glu Glu Val Leu Gln  
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Ser Arg Asn  
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<210> 1110

<211> 314

<212> PRT

<213> Homo sapiens

<400> 1110

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Lys Leu Ala Val Asn Cys Phe Val Asn Asn Asn Arg Gln Cys Gln Cys  
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Thr Ser Val Gly Ala Gln Asn Thr Val Ile Cys Ser Lys Leu Ala Ala  
50 55 60

Lys Cys Leu Val Met Lys Ala Glu Met Asn Gly Ser Lys Leu Gly Arg  
65 70 75 80

Arg Ala Lys Pro Glu Gly Ala Leu Gln Asn Asn Asp Gly Leu Tyr Asp  
85 90 95

Pro Asp Cys Asp Glu Ser Gly Leu Phe Lys Ala Lys Gln Cys Asn Gly  
100 105 110

Thr Ser Thr Cys Trp Cys Val Asn Thr Ala Gly Val Arg Arg Thr Asp  
115 120 125

Lys Asp Thr Glu Ile Thr Cys Ser Glu Arg Val Arg Thr Tyr Trp Ile  
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10025300-124004

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Ile Asp Leu Val Gln Asn Ser Ser Gln Lys Thr Gln Asn Asp Val Asp  
195 200 205

Ile Ala Asp Val Ala Tyr Tyr Phe Glu Lys Asp Val Lys Gly Glu Ser  
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Leu Phe His Ser Lys Lys Met Asp Leu Thr Val Asn Gly Glu Gln Leu  
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Asp Leu Asp Pro Gly Gln Thr Leu Ile Tyr Tyr Val Asp Glu Lys Ala  
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Pro Glu Phe Ser Met Gln Gly Leu Lys Ala Gly Val Ile Ala Val Ile  
260 265 270

Val Val Val Val Ile Ala Val Val Ala Gly Ile Val Val Leu Val Ile  
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<210> 1112

<211> 16382

<212> DNA

<213> Homo sapiens

<400> 1112

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 Glu Asp Glu Thr Ile Asp Ala Glu Val Met Asn Ser Leu Ala Val Thr  
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<213> Homo sapiens

<400> 1118

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Arg	His	Pro	Ala	Leu	Phe	Lys	Ala	Ile	Gly	Val	Lys	Pro	Pro	Arg	Gly
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Glu	Ile	Met	Ser	Lys	Leu	Ala	Gly	Glu	Ser	Glu	Ser	Asn	Leu	Arg	Lys
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Asn Asp Met Pro Val Gly Arg Ser Val Glu Glu Val Leu Arg Leu Leu		
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Trp Lys Lys Gly Ala Pro Thr Met Lys Pro Glu Pro Asn Ala Ser Val		
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	210	215 220
Cys Gly Ile Leu Ile Leu Ala Leu Ala Ile Trp Val Arg Val Ser Asn		
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Asp Ser Gln Ala Ile Phe Gly Ser Glu Asp Val Gly Ser Ser Ser Tyr		
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Val Ala Val Asp Ile Leu Ile Ala Val Gly Ala Ile Ile Met Ile Leu		
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catggacagg	caacaaaagc	tggaaagagtc	ctccaataat	ctaaccagct	tccagaccac	3000
agaggcccag	ttaaaacagt	ggctcatgga	gaaggagctg	atggtcagcg	tgctcgcccc	3060
cttgtccatt	gacccaaaca	aaacacaaca	gaaaataaca	agtatgggtg	aagacataga	3120
gaactcgag	tgtgtgcag	catgattggt	aagaatgtaa	aatggtgcaa	cctttgtgga	3180
aagcagcagg	gcgcaaattg	aaaaagacag	aggcaaatcc	tcgtgccgaa	ttcggcacga	3240
ggccagttat	attatcccat	tcattagaaa	ttaccagtgt	aactaaacat	aaatattcca	3300
gtttagagt	cttaaacgta	gctatctt	ttaaggccag	gagggttaact	ttgtggtatc	3360

```

taaagggcctt aaatttcaga atgcagaata aattgccttt ttaaaaccaa gcattttgta 3420
caagccctta ttttcagttt tttaactacc aaataggtgt gatgtacttt agaagtaaac 3480
aaagatgttc acccatgata atggatgtta aagctcctgc agttgttctt ttcgtgttta 3540
aagggatatat tctaatagtg gaagcatcaa acatgtcagt gatttcatct cattcagaaa 3600
taaagagatt aatattggtc tttatTTTTT ggcattttta gttttatata aatggatgca 3660
gatggagatt atcaccacaca aatatattta aatggatttt tcttaatttg aatttcaagt 3720
aatcttttta tttcaagtaa ttagttacgc atttagttac attgccagtt ttttttttat 3780
caatttcagt aagacaaaat atactaaaat gtttaaatac cctcattcaa tcttacattt 3840
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tttgttctta ataactagc                                     3919

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<210> 1126

<211> 194

<212> PRT

<213> Homo sapiens

<400> 1126

```

Met Thr Asp Ile Ser His Ser Tyr Glu Asp Leu Gly Leu Leu Leu Lys
                5                10                15

```

```

Asp Lys Ile Val Glu Leu Asn Thr Lys Leu Ser Lys Leu Gln Lys Ala
                20                25                30

```

```

Gln Glu Glu Ser Ser Ala Met Met Gln Trp Leu Glu Lys Met Asn Lys
                35                40                45

```

```

Thr Ala Ser Arg Trp Pro Pro Pro Pro Thr Pro Ala Asp Thr Glu Ser
                50                55                60

```

```

Val Lys Leu Gln Val Glu Gln Asn Lys Ser Phe Glu Ala Glu Leu Lys
                65                70                75                80

```

```

Gln Asn Val Asn Lys Val Gln Glu Leu Lys Asp Lys Leu Ser Glu Leu
                85                90                95

```

```

Leu Glu Glu Asn Pro Glu Ala Pro Glu Ala Gln Ser Trp Lys Gln Ala
                100                105                110

```

```

Leu Ala Glu Met Asp Thr Lys Trp Gln Glu Leu Asn Gln Leu Thr Met
                115                120                125

```

```

Asp Arg Gln Gln Lys Leu Glu Glu Ser Ser Asn Asn Leu Thr Gln Phe
                130                135                140

```

```

Gln Thr Thr Glu Ala Gln Leu Lys Gln Trp Leu Met Glu Lys Glu Leu
                145                150                155                160

```

```

Met Val Ser Val Leu Gly Pro Leu Ser Ile Asp Pro Asn Lys Thr Gln
                165                170                175

```

```

Gln Lys Ile Thr Ser Met Gly Glu Asp Ile Glu Asn Ser Glu Cys Cys
                180                185                190

```

Ala Ala



Ser Glu Phe Glu His Trp Leu Gln Gln Ser Glu Gln Glu Leu Ala Asn  
 245 250 255  
 Leu Glu Ala Gly Ala Asp Asp Leu Ser Gly Leu Met Asp Lys Leu Thr  
 260 265 270  
 Arg Gln Lys Ser Phe Ser Glu Asp Val Ile Ser His Lys Gly Asp Leu  
 275 280 285  
 Arg Tyr Ile Thr Ile Ser Gly Asn Arg Val Ile Asp Ala Ala Lys Ser  
 290 295 300  
 Cys Ser Lys Arg Asp Ser Asp Arg Ile Gly Lys Asp Ser Val Glu Thr  
 305 310 315 320  
 Ser Ala Thr His Arg Glu Val Gln Thr Lys Leu Asp Gln Val Thr Asp  
 325 330 335  
 Arg Phe Arg Ser Leu Tyr Ser Lys Cys Ser Val Leu Gly Asn Asn Leu  
 340 345 350  
 Lys Asp Leu Val Asp Gln Tyr Gln Gln Tyr Glu Asp Ala Ser Cys Gly  
 355 360 365  
 Leu Leu Ser Gly Leu Gln Ala Cys Glu Ala Lys Ala Ser Lys His Leu  
 370 375 380  
 Arg Glu Pro Ile Ala Leu Asp Pro Lys Asn Leu Gln Arg Gln Leu Glu  
 385 390 395 400  
 Glu Thr Lys Ala Leu Gln Gly Gln Ile Ser Ser Gln Gln Val Ala Val  
 405 410 415  
 Glu Lys Leu Lys Lys Thr Ala Glu Val Leu Leu Asp Ala Lys Gly Ser  
 420 425 430  
 Leu Leu Pro Ala Lys Asn Asp Ile Gln Lys Thr Leu Asp Asp Ile Val  
 435 440 445  
 Gly Arg Tyr Asp Asp Leu Ser Lys Cys Val Asn Glu Arg Asn Glu Lys  
 450 455 460  
 Leu Gln Ile Thr Leu Thr Arg Ser Leu Ser Val Gln Asp Ala Leu Asp  
 465 470 475 480  
 Glu Met Leu Asp Trp Met Gly Ser Val Glu Ser Ser Leu Val Lys Pro  
 485 490 495  
 Gly Gln Val Pro Leu Asn Ser Thr Ala Leu Gln Asp Leu Ile Ser Lys  
 500 505 510  
 Asp Thr Met Leu Glu Gln Asp Ile Thr Gly Arg Gln Ser Ser Ile Asn  
 515 520 525





&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1128

Met Val Gln Pro Leu Trp Lys Ala Ala Gly Arg Lys Leu Lys Lys Thr  
                     5                    10                    15

Glu Ala Asn Pro Arg Ala Glu Phe Gly Thr Arg Pro Val Ile Leu Ser  
                     20                    25                    30

His Ser Leu Glu Ile Thr Ser Val Thr Lys His Lys Tyr Ser Ser Leu  
                     35                    40                    45

Glu Cys Leu Asn Val Ala Ile Phe Leu Lys Ala Arg Arg Val Thr Leu  
                     50                    55                    60

Trp Tyr Leu Lys Gly Leu Asn Phe Arg Met Gln Asn Lys Leu Pro Phe  
                     65                    70                    75                    80

&lt;210&gt; 1129

&lt;211&gt; 86

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1129

Met Tyr Phe Arg Ser Lys Gln Arg Cys Ser Pro Met Ile Met Asp Val  
                     5                    10                    15

Lys Ala Pro Ala Val Val Leu Phe Val Phe Lys Gly Tyr Ile Leu Ile  
                     20                    25                    30

Val Glu Ala Ser Asn Met Ser Val Ile Ser Ser His Ser Glu Ile Lys  
                     35                    40                    45

Arg Leu Ile Leu Val Phe Ile Phe Trp His Phe Lys Phe Tyr Ile Asn  
                     50                    55                    60

Gly Cys Arg Trp Arg Leu Ser Pro Thr Asn Ile Phe Lys Trp Ile Phe  
                     65                    70                    75                    80

Leu Asn Leu Asn Phe Lys  
                     85

"085001"